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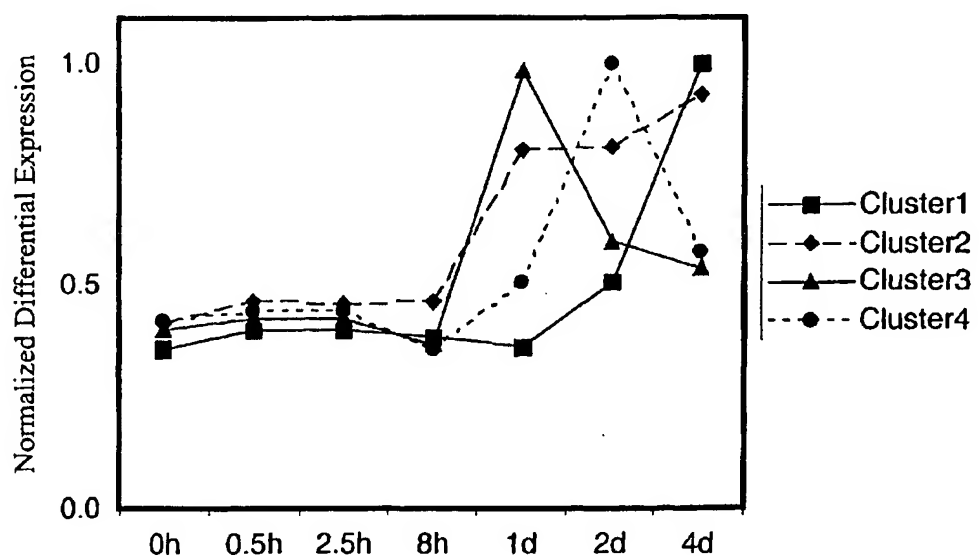
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(54) Title: GENES EXPRESSED IN FOAM CELL DIFFERENTIATION



(57) Abstract: The present invention relates to purified polynucleotides and compositions comprising pluralities of polynucleotides that are differentially expressed during foam cell development and are associated with atherosclerosis. The present invention presents the use of the compositions as elements on a substrate, and provides methods for using the compositions and polynucleotides.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

GENES EXPRESSED IN FOAM CELL DIFFERENTIATION

TECHNICAL FIELD

The present invention relates to a plurality of polynucleotides which may be used in detecting
5 genes modulated in human foam cells. In particular, the present invention provides for the use of these polynucleotides in the diagnosis of conditions, disorders, and diseases associated with atherosclerosis.

BACKGROUND OF THE INVENTION

Atherosclerosis and the associated coronary artery disease and cerebral stroke represent the
10 most common cause of death in industrialized nations. Although certain key risk factors have been identified, a full molecular characterization that elucidates the causes and provide care for this complex disease has not been achieved. Molecular characterization of growth and regression of atherosclerotic vascular lesions requires identification of the genes that contribute to features of the lesion including growth, stability, dissolution, rupture and, most lethally, induction of occlusive vessel thrombus.

15 An early step in the development of atherosclerosis is formation of the "fatty streak". Lipoproteins, such as the cholesterol-rich low-density lipoprotein (LDL), accumulate in the extracellular space of the vascular intima, and undergo modification. Oxidation of LDL occurs most avidly in the sub-endothelial space where circulating antioxidant defenses are less effective. The degree of LDL oxidation affects its interaction with target cells. "Minimally oxidized" LDL (MM-LDL) is
20 able to bind to LDL receptor but not to the oxidized LDL (Ox-LDL) or "scavenger" receptors that have been identified, including scavenger receptor types A and B, CD36, CD68/macrosialin and LOX-1 (Navab *et al.* (1994) *Arterioscler Thromb Vasc Biol* 16:831-842; Kodama *et al.* (1990) *Nature* 343:531-535; Acton *et al.* (1994) *J Biol Chem* 269:21003-21009; Endemann *et al.* (1993) *J Biol Chem* 268:11811-11816; Ramprasad *et al.* (1996) *Proc Natl Acad Sci* 92:14833-14838; Kataoka *et al.*
25 (1999) *Circulation* 99:3110-3117). MM-LDL can increase the adherence and penetration of monocytes, stimulate the release of monocyte chemotactic protein 1 (MCP-1) by endothelial cells, and induce scavenger receptor A (SRA) and CD36 expression in macrophages (Cushing *et al.* (1990) *Proc Natl Acad Sci* 87:5134-5138; Yoshida *et al.* (1998) *Arterioscler Thromb Vasc Biol* 18:794-802; Steinberg (1997) *J Biol Chem* 272:20963-20966). SRA and the other scavenger receptors can bind
30 Ox-LDL and enhance uptake of lipoprotein particles.

Mononuclear phagocytes enter the intima, differentiate into macrophages, and ingest modified lipids including Ox-LDL. In most cell types, cholesterol content is tightly controlled by feedback regulation of LDL receptors and biosynthetic enzymes (Brown and Goldstein (1986) *Science* 232:34-47). In macrophages, however, the additional scavenger receptors lead to unregulated uptake of

cholesterol (Brown and Goldstein (1983) *Annu Rev Biochem* 52:223-261) and accumulation of multiple intracellular lipid droplets producing a "foam cell" phenotype. Cholesterol-engorged and dead macrophages contribute most of the mass of early "fatty streak" plaques and typical "advanced" lesions of diseased arteries. Numerous studies have described a variety of foam cell responses that contribute to growth and rupture of atherosclerotic vessel wall plaques. These responses include production of multiple growth factors and cytokines, which promote proliferation and adherence of neighboring cells; chemokines, which further attract circulating monocytes into the growing plaque; proteins, which cause remodeling of the extracellular matrix; and tissue factor, which can trigger thrombosis (Ross (1993) *Nature* 362:801-809; Quin *et al.* (1987) *Proc Natl Acad Sci* 84:2995-2998). Thus, cholesterol-loaded macrophages which occur in abundance in most stages of the atherosclerotic plaque formation contribute to inception of the atherosclerotic process and to eventual plaque rupture and occlusive thrombus.

During Ox-LDL uptake, macrophages produce cytokines and growth factors that elicit further cellular events that modulate atherogenesis such as smooth muscle cell proliferation and production of extracellular matrix. Additionally, these macrophages may activate genes involved in inflammation including inducible nitric oxide synthase. Thus, genes differentially expressed during foam cell formation may reasonably be expected to be markers of the atherosclerotic process.

The present invention provides a method of high-throughput screening using a plurality of probes and purified polynucleotides in a diagnostic context as markers of atherosclerosis and other cardiovascular disorders.

SUMMARY OF THE INVENTION

The present invention provides a composition comprising a plurality of polynucleotides differentially expressed in foam cell development selected from SEQ ID NOs:1-276 as presented in the Sequence Listing. In one embodiment, each polynucleotide is an early marker of foam cell formation and is either upregulated, SEQ ID NOs:1-55, or downregulated, SEQ ID NOs:171-196. In a second embodiment, each polynucleotide is differentially expressed greater than 3-fold and is either upregulated, SEQ ID NOs:47-67, or downregulated, SEQ ID NOs:194-213. Further, the invention encompasses complements of the polynucleotides and immobilization of the polynucleotides on a substrate.

The invention provides a high throughput method for detecting altered expression of one or more polynucleotides in a sample. The method comprises hybridizing the polynucleotide composition with the sample, thereby forming one or more hybridization complexes; detecting the hybridization complexes; and comparing the hybridization complexes with those of a standard, wherein each difference in the size and intensity of a hybridization complex indicates altered expression of a

polynucleotide in the sample. The sample can be from a subject with atherosclerosis and comparison with a standard defines early, mid, and late stages of that disease.

The invention also provides a high throughput method of screening a library of molecules or compounds to identify a ligand. The method comprises combining the polynucleotide composition with
5 a library of molecules or compounds under conditions to allow specific binding; and detecting specific binding, thereby identifying a ligand. Libraries of molecules or compounds are selected from DNA molecules, RNA molecules, peptide nucleic acids (PNAs), mimetics, peptides, and proteins. The invention additionally provides a method for purifying a ligand, the method comprising combining a polynucleotide of the invention with a sample under conditions which allow specific binding, recovering
10 the bound polynucleotide, and separating the polynucleotide from the ligand, thereby obtaining purified ligand.

The invention also provides a method of obtaining an extended or full length gene from a library of expressed or genomic nucleic acid sequences. The method comprises arranging individual library sequences on a substrate; hybridizing a polynucleotide selected from the Sequence Listing with
15 the library sequences under conditions which allow specific binding; detecting hybridization between the polynucleotide and a sequence; and isolating the library sequence, thereby obtaining the extended or full length gene.

The present invention further provides a substantially purified polynucleotide selected from SEQ ID NOs:35-48, 68-80, 192,193, 214-224 as presented in the Sequence Listing. The invention also
20 provides an expression vector containing the polynucleotide, a host cell containing the expression vector, and a method for producing a protein comprising culturing the host cell under conditions for the expression of protein and recovering the protein from the host cell culture.

The present invention further provides a protein encoded by a polynucleotide of the invention. The invention also provides a high-throughput method for screening a library of molecules or
25 compounds to identify at least one ligand which specifically binds the protein. The method comprises combining the protein or a portion thereof with the library of molecules or compounds under conditions to allow specific binding and detecting specific binding, thereby identifying a ligand which specifically binds the protein. Libraries of molecules or compounds are selected from DNA molecules, RNA molecules, PNAs, mimetics, peptides, proteins, agonists, antagonists, antibodies or their fragments,
30 immunoglobulins, inhibitors, drug compounds, and pharmaceutical agents. The invention further provides for using a protein to purify a ligand. The method comprises combining the protein or a portion thereof with a sample under conditions to allow specific binding, recovering the bound protein, and separating the protein from the ligand, thereby obtaining purified ligand. The invention also provides a pharmaceutical composition comprising the protein in conjunction with a pharmaceutical

carrier and a purified antibody that specifically binds to the protein.

DESCRIPTION OF THE TABLES

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The Sequence Listing is a compilation of polynucleotides obtained by sequencing clone inserts (isolates) of different cDNAs and identified by hybrid complex formation using the cDNAs as probes on a microarray. Each sequence is identified by a sequence identification number (SEQ ID NO) and by an Incyte ID number. The Incyte ID number represents the gene sequence that contains the clone insert.

Table 1 shows the differentially expressed genes associated with foam cell development identified by cluster analysis. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the normalized differential expression, and column 11 shows the cluster to which the gene was assigned.

Figures 1A and 1B show graphs of the average normalized expression pattern over the time points for genes in each cluster. Clusters 1 through 4 contain genes which are up-regulated at days 1, 2, or 4. Clusters 5 and 6 contain genes that are down-regulated at later time points, and cluster 7 contains genes that are up-regulated at 8 hours.

Table 2 shows an identification map for each sequence. Column 1 shows the SEQ ID NO, and column 2 shows the Incyte ID number. Column 3 shows the Clone number of the Incyte clone represented on the UNIGEM V 2.0 microarray. Columns 4 and 5 show the START and STOP sites for the clone insert sequence relative to the gene sequence identified in column 2 and shown in the Sequence Listing.

Table 3 is a list of the genes that show differential expression early in foam cell differentiation. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the differential expression values for each time point. Columns 11 and 12 show the maximum change in expression up or down, respectively, over the time course. Column 12 shows the maximum difference seen over the time course.

Table 4 is a list of the genes that show greater than 3-fold differential expression during foam cell differentiation. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the differential expression values for each time point. Columns 11 and 12 show the maximum change in expression up or down, respectively, over the time course. Column 12 shows the maximum difference seen over the time

course.

DETAILED DESCRIPTION OF THE INVENTION

Before the nucleic acid sequences and methods are presented, it is to be understood that this invention is not limited to the particular machines, methods, and materials described. Although
5 particular embodiments are described, machines, methods, and materials similar or equivalent to these embodiments may be used to practice the invention. The preferred machines, methods, and materials set forth are not intended to limit the scope of the invention which is limited only by the appended claims.

The singular forms "a", "an", and "the" include plural reference unless the context clearly
10 dictates otherwise. All technical and scientific terms have the meanings commonly understood by one of ordinary skill in the art. All publications are incorporated by reference for the purpose of describing and disclosing the cell lines, vectors, and methodologies which are presented and which might be used in connection with the invention. Nothing in the specification is to be construed as an admission that the invention is not entitled to antedate such disclosure by virtue of prior invention.

15 Definitions

"Amplification" refers to the production of additional copies of a nucleotide sequence and is carried out using polymerase chain reaction (PCR) technologies well known in the art.

"Complementary" describes the relationship between two single-stranded nucleotide sequences that anneal by base-pairing (5'-A-G-T-3' pairs with its complement 3'-T-C-A-5').

20 "E-value" refers to the statistical probability that a match between two sequences occurred by chance.

"Derivative" refers to a polynucleotide or a polypeptide that has been subjected to a chemical modification. Illustrative of such modifications would be replacement of a hydrogen by, for example, an acetyl, acyl, alkyl, amino, formyl, or morpholino group. Derivative polynucleotides may encode
25 polypeptides that retain the essential biological characteristics (such as catalytic and regulatory domains) of naturally occurring polypeptides.

"Fragment" refers to at least 18 consecutive nucleotides of a polynucleotide of the Sequence Listing or its complement. A "unique" fragment refers to at least 18 consecutive nucleotides of a particular polynucleotide or its complement that is specific to a polynucleotide of the Sequence Listing
30 and that under hybridization conditions would not detect related polynucleotides in which it does not appear.

"Homology" refers to sequence similarity between a reference sequence and at least a fragment of a polynucleotide or a portion of a polypeptide.

"Hybridization complex" refers to a complex between two polynucleotides by virtue of the

formation of hydrogen bonds between purines and pyrimidines.

"Immunological activity" is the capability of the natural, recombinant, or synthetic polypeptide or portion thereof to induce in an animal a specific immune response that results in the production of antibodies.

5 "Ligand" refers to any molecule, agent, or compound which will bind specifically to a complementary site on a polynucleotide or protein. Such ligands stabilize or modulate the activity of polynucleotides or proteins of the invention and may be composed of at least one of the following: inorganic and organic substances including nucleic acids, proteins, carbohydrates, fats, and lipids.

"Microarray" refers to an ordered arrangement of hybridizable elements on a substrate. The
10 elements are arranged so that there are a "plurality" of elements, preferably more than one element, more preferably at least 100 elements, and even more preferably at least 1,000 elements, and most preferably at least 10,000 on a 1 cm² substrate. The maximum number of elements is unlimited, but is at least 100,000 elements. Furthermore, the hybridization signal from each of the elements is individually distinguishable. In the present and preferred embodiment, the elements comprise
15 polynucleotide probes.

"Modulates" refers to any change in activity (increased or decreased; biological, chemical, or immunological) or lifespan resulting from specific binding between a molecule and a polynucleotide or polypeptide of the invention.

"Oligonucleotide" or "oligomer" refers to a nucleotide sequence of at least about 15 nucleotides
20 to as many as about 60 nucleotides, preferably about 18 to 30 nucleotides, and most preferably about 20 to 25 nucleotides that are used as a "primer" or "amplimer" in the polymerase chain reaction (PCR) or as an array element.

"Peptide nucleic acid" (PNA) refers to a DNA mimic in which nucleotide bases are attached to a pseudopeptide backbone to increase stability. PNAs, also designated antigene agents, can prevent
25 gene expression by hybridizing to complementary messenger RNA.

"Polynucleotide" refers to an oligonucleotide, nucleotide sequence, nucleic acid molecule, DNA molecule, or any fragment or complement thereof. It may be DNA or RNA of genomic or synthetic origin, double-stranded or single-stranded, coding and/or noncoding, an exon or an intron of a genomic DNA molecule, or combined with carbohydrate, lipids, protein or inorganic elements or substances.

30 "Portion" refers to at least six contiguous amino acids of a polypeptide encoded by a polynucleotide of the Sequence Listing. A portion may represent an amino acid sequence that is conserved among related proteins (e.g., a catalytic domain such as a kinase domain).

"Post-translational modification" of a polypeptide may involve lipidation, glycosylation, phosphorylation, acetylation, racemization, proteolytic cleavage, and the like. These processes may

occur synthetically or biochemically. Biochemical modifications will vary by cellular location, cell type, pH, enzymatic milieu, and the like.

“Probe” refers to a polynucleotide or a fragment thereof that hybridizes to a nucleic acid molecule in a sample or on a substrate. A probe is used to detect, amplify, or quantify cDNAs, endogenous genes, or transcript mRNAs by employing conventional, molecular biology techniques. As used herein, probes are the reporter molecule of hybridization reactions including Southern, northern, in situ, dot blot, array, and like technologies.

“Protein” refers to a protein or any portion thereof including a polypeptide or an oligopeptide. A portion of a polypeptide generally retains biological or immunogenic characteristics of a native protein. An “oligopeptide” is an amino acid sequence of at least about 5 residues, more preferably 10 residues and most preferably about 15 residues that are immunogenic and are used as part of a fusion protein to produce an antibody.

“Purified” refers to polynucleotides, polypeptides, antibodies, and the like, that are isolated from at least one other component with which they are naturally associated.

“Sample” is used herein in its broadest sense. A sample containing polynucleotides, polypeptides, antibodies and the like may comprise a bodily fluid; a soluble fraction of a cell preparation, or media in which cells were grown; a chromosome, an organelle, or membrane isolated or extracted from a cell; genomic DNA, RNA, or cDNA in solution or bound to a substrate; a cell; a tissue; a tissue print; a fingerprint, skin or hair; and the like.

“Specific binding” or “specifically binding” refers to the interaction between two molecules. In the case of a polynucleotide, specific binding may involve hydrogen bonding between sense and antisense strands or between one strand and a protein which affects its replication or transcription, intercalation of a molecule or compound into the major or minor groove of the DNA molecule, or interaction with at least one molecule which functions as a transcription factor, enhancer, repressor, and the like. In the case of a polypeptide, specific binding may involve interactions with polynucleotides, as described above or with molecules or compounds such as agonists, antibodies, antagonists, and the like. Specific binding is dependent upon the presence of structural features that allow appropriate chemical or molecular interactions between molecules.

“Substrate” refers to any rigid or semi-rigid support to which molecules or compounds are bound and includes membranes, filters, chips, slides, wafers, fibers, magnetic or nonmagnetic beads, gels, capillaries or other tubing, plates, polymers, and microparticles with a variety of surface forms including wells, trenches, pins, channels and pores.

The Invention

The present invention provides a composition comprising a plurality of polynucleotides,

wherein each polynucleotide is differentially expressed in macrophages as they differentiate into foam cells. The plurality of polynucleotides comprise at least a fragment of the identified sequences, SEQ ID NOs:1-276, as presented in the Sequence Listing. Additionally, the invention provides a subset of polynucleotides whose expression is upregulated, SEQ ID NOs:1-55, or downregulated, SEQ ID NOs:171-196, early in foam cell formation. The invention also provides a subset of polynucleotides whose expression is upregulated, SEQ ID NOs:47-67, or downregulated, SEQ ID NOs:194-213, greater than 3-fold during foam cell formation. The invention also provides novel polynucleotides whose expression is upregulated, SEQ ID NOs:35-48 and 68-80, or downregulated, SEQ ID NOs:192, 193, and 214-222, during foam cell development.

10 Method for Selecting Polynucleotides

Human THP-1 cells (American Type Culture Collection, Manassas VA) were grown in serum-containing medium and differentiated with 12-O-tetradecanoyl-phorbol-13-acetate (Research Biochemical International, Natick MA) for 24 hours. Cells were then cultured either in the presence or absence of Ox-LDL from time points ranging from 30 minutes to 4 days. Poly (A) RNA from cultured cells was prepared for expression profiling after 0, 0.5, 2.5, 8, 24, 48, and 96 hours exposure to Ox-LDL. Poly(A) RNA from experimental and control cells was labeled with separate fluorescent dyes and hybridized in time-matched pairs on UNIGEM V 2.0 arrays (Incyte Pharmaceuticals, Palo Alto CA).

Agglomerative cluster analysis was used to identify response patterns and to establish relationships between different gene expression profiles. Each gene measurement was normalized by dividing the expression ratios by the maximum value for each time series. The clustering process defined a hierarchical tree with the number of branches intersecting at each branch level of the tree equal to the number of clusters at that level. Division of the tree at branch level 5 divided the genes into 7 clusters of gene expression containing 276 differentially expressed genes and splice variants, SEQ ID NOs:1-276.

Table 1 shows the differentially expressed genes and splice variants associated with foam cell development identified by cluster analysis. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the normalized differential expression; each gene has a maximum value of 1.0. The background shading indicates the relative expression in response to Ox-LDL; white represents relative expression ranging from 0-25% of maximum for that particular gene; light gray from 26-50%; dark gray from 51-75%; black from 76-100%. Column 11 shows the cluster to which the gene was assigned.

Figure 1 shows a graph of the average normalized expression pattern over the time points for all the genes in each cluster. Clusters 1 through 4 contain genes which are up-regulated at days 1, 2, or

4. Clusters 5 and 6 contain genes that are down-regulated at later time points, and cluster 7 contains genes that are up-regulated at 8 hours.

Table 2 shows an ID map for each SEQ ID NO. Column 1 shows the SEQ ID NO and column 2 shows the Incyte ID number. Column 3 shows the Clone number of the Incyte clone represented on the UNIGEM V 2.0 microarray. Columns 4 and 5 show the START and STOP sites for the clone insert sequence relative to the gene sequence identified in column 2.

Table 3 is a list of the genes that show differential expression early in foam cell differentiation. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the differential expression values for each time point. Values represent treated sample divided by time matched untreated sample. Columns 11 and 12 show the maximum change in expression up or down, respectively, over the time course. Column 12 shows the maximum difference seen over the time course.

Table 4 is a list of the genes that show greater than 3-fold differential expression during foam cell differentiation. Column 1 shows the SEQ ID NO, column 2 shows the Incyte ID number, and column 3 shows the gene annotation. Columns 4 through 10 show the differential expression values for each time point. Values represent treated sample divided by time matched untreated sample. Columns 11 and 12 show the maximum change in expression up or down, respectively, over the time course. Column 12 shows the maximum difference seen over the time course.

The polynucleotides of the invention can be genomic DNA, cDNA, mRNA, or any RNA-like or DNA-like material such as peptide nucleic acids, branched DNAs and the like. Polynucleotide probes can be sense or antisense strand. Where targets are double stranded, probes may be either sense or antisense strands. Where targets are single stranded, probes are complementary single strands. In one embodiment, polynucleotides are cDNAs. In another embodiment, polynucleotides are plasmids. In the case of plasmids, the sequence of interest is the cDNA insert.

Polynucleotides can be prepared by a variety of synthetic or enzymatic methods well known in the art. Polynucleotides can be synthesized, in whole or in part, using chemical methods well known in the art (Caruthers *et al.* (1980) *Nucleic Acids Symp. Ser.* (7)215-233). Alternatively, polynucleotides can be produced enzymatically or recombinantly, by *in vitro* or *in vivo* transcription.

Nucleotide analogs can be incorporated into polynucleotide probes by methods well known in the art. The only requirement is that the incorporated nucleotide analogs of the probe must base pair with target nucleotides. For example, certain guanine nucleotides can be substituted with hypoxanthine which base pairs with cytosine residues. However, these base pairs are less stable than those between guanine and cytosine. Alternatively, adenine nucleotides can be substituted with 2, 6-diaminopurine which can form stronger base pairs with thymidine than those between adenine and thymidine.

Additionally, polynucleotides can include nucleotides that have been derivatized chemically or enzymatically. Typical chemical modifications include derivatization with acyl, alkyl, aryl or amino groups.

Polynucleotides can be synthesized on a substrate. Synthesis on the surface of a substrate may be accomplished using a chemical coupling procedure and a piezoelectric printing apparatus as described by Baldeschweiler *et al.* (PCT publication WO95/251116). Alternatively, the polynucleotides can be synthesized on a substrate surface using a self-addressable electronic device that controls when reagents are added as described by Heller *et al.* (USPN 5,605,662; incorporated herein by reference).

Complementary DNA (cDNA) can be arranged and then immobilized on a substrate. Polynucleotides can be immobilized by covalent means such as by chemical bonding procedures or UV irradiation. In one such method, a cDNA is bound to a glass surface which has been modified to contain epoxide or aldehyde groups. In another case, a cDNA probe is placed on a polylysine coated surface and then UV cross-linked as described by Shalon *et al.* (WO95/35505). In yet another method, a DNA is actively transported from a solution to a given position on a substrate by electrical means (Heller *et al.*, *supra*). Alternatively, polynucleotides, clones, plasmids or cells can be arranged on a filter. In the latter case, cells are lysed, proteins and cellular components degraded, and the DNA is coupled to the filter by UV cross-linking.

Furthermore, polynucleotides do not have to be directly bound to the substrate, but rather can be bound to the substrate through a linker group. The linker groups are typically about 6 to 50 atoms long to provide exposure of the attached probe. Preferred linker groups include ethylene glycol oligomers, diamines, diacids and the like. Reactive groups on the substrate surface react with a terminal group of the linker to bind the linker to the substrate. The other terminus of the linker is then bound to the polynucleotide.

Polynucleotides can be attached to a substrate by sequentially dispensing reagents for probe synthesis on the substrate surface or by dispensing preformed DNA fragments to the substrate surface. Typical dispensers include a micropipette delivering solution to the substrate with a robotic system to control the position of the micropipette with respect to the substrate. There can be a multiplicity of dispensers so that reagents can be delivered to the reaction regions efficiently.

Use of the Polynucleotides

The polynucleotide of the present invention may be used for a variety of purposes. For example, the composition of the invention may be used as elements on a microarray. The microarray can be used in high-throughput methods such as for detecting a related polynucleotide in a sample, screening libraries of molecules or compounds to identify a ligand, or diagnosing a particular

cardiovascular condition, disease, or disorder such as atherosclerosis. Alternatively, a polynucleotide complementary to a given sequence of the sequence listing can inhibit or inactivate a therapeutically relevant gene related to the polynucleotide.

When the composition of the invention is employed as elements on a microarray, the polynucleotide elements are organized in an ordered fashion so that each element is present at a specified location on the substrate. Because the elements are at specified locations on the substrate, the hybridization patterns and intensities, which together create a unique expression profile, can be interpreted in terms of expression levels of particular genes and can be correlated with a particular metabolic process, condition, disorder, disease, stage of disease, or treatment.

Hybridization

The polynucleotides or fragments or complements thereof of the present invention may be used in various hybridization technologies. The polynucleotides may be naturally occurring, recombinant, or chemically synthesized; based on genomic or cDNA sequences; and labeled using a variety of reporter molecules by either PCR or enzymatic techniques. Commercial kits are available for labeling and cleanup of such polynucleotides or probes. Radioactive (Amersham Pharmacia Biotech), fluorescent (Operon Technologies, Alameda CA), and chemiluminescent labeling (Promega, Madison WI), are well known in the art. Alternatively, a polynucleotide is cloned into a commercially available vector, and probes are produced by transcription. The probe is synthesized and labeled by addition of an appropriate polymerase, such as T7 or SP6 polymerase, and at least one labeled nucleotide.

A probe may be designed or derived from unique regions of the polynucleotide, such as the 3' untranslated region or from a conserved motif, and used in protocols to identify naturally occurring molecules encoding the same polypeptide, allelic variants, or related molecules. The probe may be DNA or RNA, is usually single stranded and should have at least 50% sequence identity to any of the nucleic acid sequences. The probe may comprise at least 18 contiguous nucleotides of a polynucleotide. Such a probe may be used under hybridization conditions that allow binding only to an identical sequence or under conditions that allow binding to a related sequence with at least one nucleotide substitution or deletion. Discovery of related sequences may also be accomplished using a pool of degenerate probes and appropriate hybridization conditions. Generally, a probe for use in Southern or northern hybridizations may be from about 400 to about 4000 nucleotides long. Such probes may be single-stranded or double-stranded and may have high binding specificity in solution-based or substrate-based hybridizations. A probe may also be an oligonucleotide that is used to detect a polynucleotide of the invention in a sample by PCR.

The stringency of hybridization is determined by G+C content of the probe, salt concentration,

and temperature. In particular, stringency is increased by reducing the concentration of salt or raising the hybridization temperature. In solutions used for some membrane based hybridizations, addition of an organic solvent such as formamide allows the reaction to occur at a lower temperature.

Hybridization may be performed with buffers, such as 5x saline sodium citrate (SSC) with 1% sodium dodecyl sulfate (SDS) at 60°C, that permits the formation of a hybridization complex between nucleic acid sequences that contain some mismatches. Subsequent washes are performed with buffers such as 0.2xSSC with 0.1% SDS at either 45°C (medium stringency) or 65°- 68°C (high stringency). At high stringency, hybridization complexes will remain stable only where the polynucleotides are completely complementary. In some membrane-based hybridizations, preferably 35% or most preferably 50%, formamide may be added to the hybridization solution to reduce the temperature at which hybridization is performed. Background signals may be reduced by the use of detergents such as Sarkosyl or Triton X-100 (Sigma Aldrich, St. Louis MO) and a blocking agent such as denatured salmon sperm DNA. Selection of components and conditions for hybridization are well known to those skilled in the art and are reviewed in Ausubel (*supra*, pp. 6.11-6.19, 14.11-14.36, and A1-43).

Dot-blot, slot-blot, low density and high density arrays are prepared and analyzed using methods known in the art. Probes or array elements from about 18 consecutive nucleotides to about 5000 consecutive nucleotides are contemplated by the invention and used in array technologies. The preferred number of probes or array elements is at least about 40,000; a more preferred number is at least about 18,000; an even more preferred number is at least about 10,000; and a most preferred number is at least about 600 to about 800. The array may be used to monitor the expression level of large numbers of genes simultaneously and to identify genetic variants, mutations, and SNPs. Such information may be used to determine gene function; to understand the genetic basis of a disorder; to diagnose a disorder; and to develop and monitor the activities of therapeutic agents being used to control or cure a disorder. (See, e.g., USPN 5,474,796; PCT application WO95/11995; PCT application WO95/35505; USPN 5,605,662; and USPN 5,958,342.)

Screening Assays

A polynucleotide may be used to screen a library or a plurality of molecules or compounds for a ligand with specific binding affinity. The ligands may be DNA molecules, RNA molecules, PNAs, peptides, proteins such as transcription factors, enhancers, repressors, and other proteins that regulate the activity, replication, transcription, or translation of the polynucleotide in the biological system. The assay involves combining the polynucleotide or a fragment thereof with the molecules or compounds under conditions that allow specific binding and detecting the bound polynucleotide to identify at least one ligand that specifically binds the polynucleotide.

In one embodiment, the polynucleotide of the invention may be incubated with a library of

isolated and purified molecules or compounds and binding activity determined by methods well known in the art, e.g., a gel-retardation assay (USPN 6,010,849) or a reticulocyte lysate transcriptional assay. In another embodiment, the polynucleotide may be incubated with nuclear extracts from biopsied and/or cultured cells and tissues. Specific binding between the polynucleotide and a molecule or compound in the nuclear extract is initially determined by gel shift assay and may be later confirmed by raising antibodies against that molecule or compound. When these antibodies are added into the assay, they cause a supershift in the gel-retardation assay.

In another embodiment, the polynucleotide may be used to purify a molecule or compound using affinity chromatography methods well known in the art. In one embodiment, the polynucleotide is chemically reacted with cyanogen bromide groups on a polymeric resin or gel. Then a sample is passed over and reacts with or binds to the polynucleotide. The molecule or compound which is bound to the polynucleotide may be released from the polynucleotide by increasing the salt concentration of the flow-through medium and collected.

Purification of Ligand

The polynucleotide or a fragment thereof may be used to purify a ligand from a sample. A method for using a mammalian polynucleotide or a fragment thereof to purify a ligand would involve combining the polynucleotide or a fragment thereof with a sample under conditions to allow specific binding, recovering the bound polynucleotide, and using an appropriate agent to separate the polynucleotide from the purified ligand.

20 Protein Production and Uses

The polynucleotides of this application or their full length cDNAs may be used to produce purified polypeptides using recombinant DNA technologies described herein and taught in Ausubel (*supra*; pp. 16.1-16.62). One of the advantages of producing polypeptides by these procedures is the ability to obtain highly-enriched sources of the polypeptides thereby simplifying purification procedures. The present invention also encompasses amino acid substitutions, deletions or insertions made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, and/or the amphipathic nature of the residues involved. Such substitutions may be conservative in nature when the substituted residue has structural or chemical properties similar to the original residue (e.g., replacement of leucine with isoleucine or valine) or they may be nonconservative when the replacement residue is radically different (e.g., a glycine replaced by a tryptophan). Computer programs included in LASERGENE software (DNASTAR, Madison WI), MACVECTOR software (Genetics Computer Group, Madison WI) and RasMol software (www.umass.edu/microbio/rasmol) may be used to help determine which and how many amino acid residues in a particular portion of the polypeptide may be substituted, inserted, or deleted without abolishing biological or immunological

activity.

Expression of Encoded Proteins

Expression of a particular cDNA may be accomplished by cloning the cDNA into an appropriate vector and transforming this vector into an appropriate host cell. The cloning vector used for the construction of the human and rat cDNA libraries may also be used for expression. Such vectors usually contain a promoter and a polylinker useful for cloning, priming, and transcription. An exemplary vector may also contain the promoter for β -galactosidase, an amino-terminal methionine and the subsequent seven amino acid residues of β -galactosidase. The vector may be transformed into an appropriate host strain of *E. coli*. Induction of the isolated bacterial strain with isopropylthiogalactoside (IPTG) using standard methods will produce a fusion protein that contains an N terminal methionine, the first seven residues of β -galactosidase, about 15 residues of linker, and the polypeptide encoded by the cDNA.

The cDNA may be shuttled into other vectors known to be useful for expression of protein in specific hosts. Oligonucleotides containing cloning sites and fragments of DNA sufficient to hybridize to stretches at both ends of the cDNA may be chemically synthesized by standard methods. These primers may then be used to amplify the desired fragments by PCR. The fragments may be digested with appropriate restriction enzymes under standard conditions and isolated using gel electrophoresis. Alternatively, similar fragments are produced by digestion of the cDNA with appropriate restriction enzymes and filled in with chemically synthesized oligonucleotides. Fragments of the coding sequence from more than one gene may be ligated together and expressed.

Signal sequences that dictate secretion of soluble proteins are particularly desirable as component parts of a recombinant sequence. For example, a chimeric protein may be expressed that includes one or more additional purification-facilitating domains. Such domains include, but are not limited to, metal-chelating domains that allow purification on immobilized metals, protein A domains that allow purification on immobilized immunoglobulin, and the domain utilized in the FLAGS extension/affinity purification system (Immunex, Seattle WA). The inclusion of a cleavable-linker sequence such as ENTEROKINASEMAX (Invitrogen, San Diego CA) between the polypeptide and the purification domain may also be used to recover the polypeptide.

Suitable expression hosts may include, but are not limited to, mammalian cells such as Chinese Hamster Ovary (CHO) and human 293 cells, insect cells such as Sf9 cells, yeast cells such as *Saccharomyces cerevisiae*, and bacteria such as *E. coli*. For each of these cell systems, a useful expression vector may also include an origin of replication and one or two selectable markers to allow selection in bacteria as well as in a transfected eukaryotic host. Vectors for use in eukaryotic expression hosts may require the addition of 3' poly(A) tail if the polynucleotide lacks poly(A).

Additionally, the vector may contain promoters or enhancers that increase gene expression. Most promoters are host specific, and they include MMTV, SV40 or metallothionein promoters for CHO cells; trp, lac, tac or T7 promoters for bacterial hosts; or alpha factor, alcohol oxidase or PGH promoters for yeast. Adenoviral vectors with enhancers such as the rous sarcoma virus (RSV) enhancer or retroviral vectors with promoters such as the long terminal repeat (LTR) promoter may be used to drive protein expression in mammalian cell lines. Once homogeneous cultures of recombinant cells are obtained, large quantities of a secreted soluble polypeptide may be recovered from the conditioned medium and analyzed using chromatographic methods well known in the art. An alternative method for the production of large amounts of secreted protein involves the transformation of mammalian embryos and the recovery of the recombinant protein from milk produced by transgenic cows, goats, sheep, and the like.

In addition to recombinant production, polypeptides or portions thereof may be produced using solid-phase techniques (Stewart *et al.* (1969) Solid-Phase Peptide Synthesis, WH Freeman, San Francisco CA; Merrifield (1963) *J Am Chem Soc* 5:2149-2154), manually, or using machines such as the ABI 431A Peptide synthesizer (PE Biosystems, Norwalk CT). Polypeptides produced by any of the above methods may be used as pharmaceutical compositions to treat disorders associated with underexpression.

Screening Assays

A protein or a portion thereof encoded by the polynucleotide may be used to screen libraries or a plurality of molecules or compounds for a ligand with specific binding affinity or to purify a molecule or compound from a sample. The polypeptide or portion thereof employed in such screening may be free in solution, affixed to an abiotic or biotic substrate, or located intracellularly. For example, viable or fixed prokaryotic host cells that are stably transformed with recombinant nucleic acids that have expressed and positioned a polypeptide on their cell surface can be used in screening assays. The cells are screened against libraries or a plurality of ligands and the specificity of binding or formation of complexes between the expressed polypeptide and the ligand may be measured. The ligands may be DNA, RNA, or PNA molecules, agonists, antagonists, antibodies, immunoglobulins, inhibitors, peptides, pharmaceutical agents, proteins, drugs, or any other test molecule or compound that specifically binds the polypeptide. An exemplary assay involves combining the mammalian polypeptide or a portion thereof with the molecules or compounds under conditions that allow specific binding and detecting the bound polypeptide to identify at least one ligand that specifically binds the polypeptide.

This invention also contemplates the use of competitive drug screening assays in which neutralizing antibodies capable of binding the polypeptide specifically compete with a test compound capable of binding to the polypeptide or oligopeptide or fragment thereof. One method for high

throughput screening using very small assay volumes and very small amounts of test compound is described in USPN 5,876,946. Molecules or compounds identified by screening may be used in a mammalian model system to evaluate their toxicity, diagnostic, or therapeutic potential.

Purification of a Ligand

- 5 The polypeptide or a portion thereof may be used to purify a ligand from a sample. A method for using a mammalian polypeptide or a portion thereof to purify a ligand would involve combining the polypeptide or a portion thereof with a sample under conditions to allow specific binding, recovering the bound polypeptide, and using an appropriate chaotropic agent to separate the polypeptide from the purified ligand.

10 **Production of Antibodies**

- A polypeptide encoded by a polynucleotide of the invention may be used to produce specific antibodies. Antibodies may be produced using an oligopeptide or a portion of the polypeptide with inherent immunological activity. Methods for producing antibodies include: 1) injecting an animal (usually goats, rabbits, or mice) with the polypeptide, or a portion or an oligopeptide thereof, to induce
15 an immune response; 2) engineering hybridomas to produce monoclonal antibodies; 3) inducing in vivo production in the lymphocyte population; or 4) screening libraries of recombinant immunoglobulins. Recombinant immunoglobulins may be produced as taught in USPN 4,816,567.

- Antibodies produced using the polypeptides of the invention are useful for the diagnosis of prepathologic disorders as well as the diagnosis of chronic or acute diseases characterized by
20 abnormalities in the expression, amount, or distribution of the polypeptide. A variety of protocols for competitive binding or immunoradiometric assays using either polyclonal or monoclonal antibodies specific for polypeptides are well known in the art. Immunoassays typically involve the formation of complexes between a polypeptide and its specific binding molecule or compound and the measurement of complex formation. A two-site, monoclonal-based immunoassay utilizing monoclonal antibodies
25 reactive to two noninterfering epitopes on a specific polypeptide is preferred, but a competitive binding assay may also be employed.

- Immunoassay procedures may be used to quantify expression of the polypeptide in cell cultures, in subjects with a particular disorder or in model animal systems under various conditions. Increased or decreased production of polypeptides as monitored by immunoassay may contribute to
30 knowledge of the cellular activities associated with developmental pathways, engineered conditions or diseases, or treatment efficacy. The quantity of a given polypeptide in a given tissue may be determined by performing immunoassays on freeze-thawed detergent extracts of biological samples and comparing the slope of the binding curves to binding curves generated by purified polypeptide.

Labeling of Molecules for Assay

A wide variety of reporter molecules and conjugation techniques are known by those skilled in the art and may be used in various polynucleotide, polypeptide or antibody arrays or assays. Synthesis of labeled molecules may be achieved using Promega or Amersham Pharmacia Biotech kits for incorporation of a labeled nucleotide such as ^{32}P -dCTP, Cy3-dCTP or Cy5-dCTP or amino acid such as ^{35}S -methionine. Polynucleotides, polypeptides, or antibodies may be directly labeled with a reporter molecule by chemical conjugation to amines, thiols and other groups present in the molecules using reagents such as BIODIPY or FITC (Molecular Probes, Eugene OR).

The polypeptides and antibodies may be labeled for purposes of assay by joining them, either covalently or noncovalently, with a reporter molecule that provides for a detectable signal. A wide variety of labels and conjugation techniques are known and have been reported in the scientific and patent literature including, but not limited to USPN 3,817,837; 3,850,752; 3,939,350; 3,996,345; 4,277,437; 4,275,149; and 4,366,241.

DIAGNOSTICS

The polynucleotides, or fragments thereof, may be used to detect and quantify altered gene expression; absence, presence, or excess expression of mRNAs; or to monitor mRNA levels during therapeutic intervention. Conditions, diseases or disorders associated with altered expression include atherosclerosis and associated complications. These polynucleotides can also be utilized as markers of treatment efficacy against the diseases noted above and other cardiovascular disorders, conditions, and diseases over a period ranging from several days to months. The diagnostic assay may use hybridization or amplification technology to compare gene expression in a biological sample from a patient to standard samples in order to detect altered gene expression. Qualitative or quantitative methods for this comparison are well known in the art.

For example, the polynucleotide may be labeled by standard methods and added to a biological sample from a patient under conditions for the formation of hybridization complexes. After an incubation period, the sample is washed and the amount of label (or signal) associated with hybridization complexes, is quantified and compared with a standard value. If the amount of label in the patient sample is significantly altered in comparison to the standard value, then the presence of the associated condition, disease or disorder is indicated.

In order to provide a basis for the diagnosis of a condition, disease or disorder associated with gene expression, a normal or standard expression profile is established. This may be accomplished by combining a biological sample taken from normal subjects, either animal or human, with a probe under conditions for hybridization or amplification. Standard hybridization may be quantified by comparing the values obtained using normal subjects with values from an experiment in which a known amount of a substantially purified target sequence is used. Standard values obtained in this manner may be

compared with values obtained from samples from patients who are symptomatic for a particular condition, disease, or disorder. Deviation from standard values toward those associated with a particular condition is used to diagnose that condition.

Such assays may also be used to evaluate the efficacy of a particular therapeutic treatment regimen in animal studies and in clinical trial or to monitor the treatment of an individual patient. Once the presence of a condition is established and a treatment protocol is initiated, diagnostic assays may be repeated on a regular basis to determine if the level of expression in the patient begins to approximate that which is observed in a normal subject. The results obtained from successive assays may be used to show the efficacy of treatment over a period ranging from several days to months.

10 Gene Expression Profiles

A gene expression profile comprises a plurality of polynucleotides and a plurality of detectable hybridization complexes, wherein each complex is formed by hybridization of one or more probes to one or more complementary sequences in a sample. The polynucleotide composition of the invention is used as elements on a microarray to analyze gene expression profiles. In one embodiment, the microarray is used to monitor the progression of disease. Researchers can assess and catalog the differences in gene expression between healthy and diseased tissues or cells. By analyzing changes in patterns of gene expression, disease can be diagnosed at earlier stages before the patient is symptomatic. The invention can be used to formulate a prognosis and to design a treatment regimen. The invention can also be used to monitor the efficacy of treatment. For treatments with known side effects, the microarray is employed to improve the treatment regimen. A dosage is established that causes a change in genetic expression patterns indicative of successful treatment. Expression patterns associated with the onset of undesirable side effects are avoided. This approach may be more sensitive and rapid than waiting for the patient to show inadequate improvement, or to manifest side effects, before altering the course of treatment.

25 In another embodiment, animal models which mimic a human disease can be used to characterize expression profiles associated with a particular condition, disorder or disease or treatment of the condition, disorder or disease. Novel treatment regimens may be tested in these animal models using microarrays to establish and then follow expression profiles over time. In addition, microarrays may be used with cell cultures or tissues removed from animal models to rapidly screen large numbers of candidate drug molecules, looking for ones that produce an expression profile similar to those of known therapeutic drugs, with the expectation that molecules with the same expression profile will likely have similar therapeutic effects. Thus, the invention provides the means to rapidly determine the molecular mode of action of a drug.

Assays Using Antibodies

Antibodies directed against epitopes on a protein encoded by a polynucleotide of the invention may be used in assays to quantify the amount of protein found in a particular human cell. Such assays include methods utilizing the antibody and a label to detect expression level under normal or disease conditions. The antibodies may be used with or without modification, and labeled by joining them,
5 either covalently or noncovalently, with a labeling moiety.

Protocols for detecting and measuring protein expression using either polyclonal or monoclonal antibodies are well known in the art. Examples include ELISA, RIA, and fluorescent activated cell sorting (FACS). Such immunoassays typically involve the formation of complexes between the protein and its specific antibody and the measurement of such complexes. These and other assays are
10 described in Pound (supra). The method may employ a two-site, monoclonal-based immunoassay utilizing monoclonal antibodies reactive to two non-interfering epitopes, or a competitive binding assay. (See, e.g., Coligan et al. (1997) Current Protocols in Immunology, Wiley-Interscience, New York NY; Pound, supra)

15 THERAPEUTICS

The polynucleotides of the present invention and fragments thereof can be used in gene therapy. Polynucleotides of the invention can be delivered to a target tissue, such as mononuclear phagocytes. Expression of the protein encoded by the polynucleotide may correct a disease state associated with reduction or loss of endogenous target protein. Polynucleotides may be delivered to specific cells in
20 vitro. Transformed cells are transferred in vivo to various tissues. Alternatively, polynucleotides may be delivered in vivo. Polynucleotides are delivered to cells or tissues using vectors such as retrovirus, adenovirus, adeno-associated virus, herpes simplex virus, and bacterial plasmids. Non-viral methods of gene delivery include cationic liposomes, polylysine conjugates, artificial viral envelopes, and direct injection of DNA (Anderson (1998) *Nature* 392:25-30; Dachs et al. (1997) *Oncol Res* 9:313-325; Chu
25 et al. (1998) *J Mol Med* 76(3-4):184-192; August et al. (1997) Gene Therapy (Advances in Pharmacology, Vol. 40), Academic Press, San Diego CA).

In addition, expression of a particular protein can be modulated through the specific binding of an antisense polynucleotide sequence to a nucleic acid sequence which either encodes the protein or directs its expression. The antisense polynucleotide can be DNA, RNA, or nucleic acid mimics and
30 analogs. The nucleic acid sequence can be cellular mRNA and/or genomic DNA and binding of the antisense sequence can affect translation and/or transcription, respectively. Antisense sequences can be delivered intracellularly using viral vectors or non-viral vectors as described above (Weiss et al. (1999) *Cell Mol Life Sci* 55(3):334-358; Agrawal (1996) *Antisense Therapeutics*, Humana Press Inc., Totowa NJ).

Both polynucleotides and antisense sequences can be produced ex vivo by using any of the ABI nucleic acid synthesizers or other automated systems known in the art. Polynucleotides and antisense sequences can also be produced biologically by transforming an appropriate host cell with an expression vector containing the sequence of interest.

- 5 Molecules which modulate the expression of a polynucleotide of the invention or activity of the encoded protein are useful as therapeutics for conditions and disorders associated with an immune response. Such molecules include agonists which increase the expression or activity of the polynucleotide or encoded protein, respectively; or antagonists which decrease expression or activity of the polynucleotide or encoded protein, respectively. In one aspect, an antibody which specifically binds
10 the protein may be used directly as an antagonist or indirectly as a targeting or delivery mechanism for bringing a pharmaceutical agent to cells or tissues which express the protein.

Additionally, any of the proteins or their ligands, or complementary nucleic acid sequences may be administered in combination with other appropriate therapeutic agents. Selection of the appropriate agents for use in combination therapy may be made by one of ordinary skill in the art, according to
15 conventional pharmaceutical principles. The combination of therapeutic agents may act synergistically to affect the treatment or prevention of the conditions and disorders associated with an immune response. Using this approach, one may be able to achieve therapeutic efficacy with lower dosages of each agent, thus reducing the potential for adverse side effects. Further, the therapeutic agents may be combined with pharmaceutically-acceptable carriers including excipients and auxiliaries which
20 facilitate processing of the active compounds into preparations which can be used pharmaceutically. Further details on techniques for formulation and administration may be found in the latest edition of Remington's Pharmaceutical Sciences (Maack Publishing Co., Easton PA).

Model Systems

- Animal models may be used as bioassays where they exhibit a phenotypic response similar to
25 that of humans and where exposure conditions are relevant to human exposures. Mammals are the most common models, and most infectious agent, cancer, drug, and toxicity studies are performed on rodents such as rats or mice because of low cost, availability, lifespan, reproductive potential, and abundant reference literature. Inbred and outbred rodent strains provide a convenient model for investigation of the physiological consequences of underexpression or overexpression of genes of
30 interest and for the development of methods for diagnosis and treatment of diseases. A mammal inbred to overexpress a particular gene (for example, secreted in milk) may also serve as a convenient source of the protein expressed by that gene.

Transgenic Animal Models

Transgenic rodents that overexpress or underexpress a gene of interest may be inbred and used

to model human diseases or to test therapeutic or toxic agents. (See, e.g., USPN 5,175,383 and USPN 5,767,337.) In some cases, the introduced gene may be activated at a specific time in a specific tissue type during fetal or postnatal development. Expression of the transgene is monitored by analysis of phenotype, of tissue-specific mRNA expression, or of serum and tissue protein levels in transgenic animals before, during, and after challenge with experimental drug therapies.

Embryonic Stem Cells

Embryonic (ES) stem cells isolated from rodent embryos retain the potential to form embryonic tissues. When ES cells are placed inside a carrier embryo, they resume normal development and contribute to tissues of the live-born animal. ES cells are the preferred cells used in the creation of experimental knockout and knockin rodent strains. Mouse ES cells, such as the mouse 129/SvJ cell line, are derived from the early mouse embryo and are grown under culture conditions well known in the art. Vectors used to produce a transgenic strain contain a disease gene candidate and a marker gene, the latter serves to identify the presence of the introduced disease gene. The vector is transformed into ES cells by methods well known in the art, and transformed ES cells are identified and microinjected into mouse cell blastocysts such as those from the C57BL/6 mouse strain. The blastocysts are surgically transferred to pseudopregnant dams, and the resulting chimeric progeny are genotyped and bred to produce heterozygous or homozygous strains.

ES cells derived from human blastocysts may be manipulated in vitro to differentiate into at least eight separate cell lineages. These lineages are used to study the differentiation of various cell types and tissues in vitro, and they include endoderm, mesoderm, and ectodermal cell types that differentiate into, for example, neural cells, hematopoietic lineages, and cardiomyocytes.

Knockout Analysis

In gene knockout analysis, a region of a gene is enzymatically modified to include a non-natural intervening sequence such as the neomycin phosphotransferase gene (neo; Capecchi (1989) Science 244:1288-1292). The modified gene is transformed into cultured ES cells and integrates into the endogenous genome by homologous recombination. The inserted sequence disrupts transcription and translation of the endogenous gene. Transformed cells are injected into rodent blastulae, and the blastulae are implanted into pseudopregnant dams. Transgenic progeny are crossbred to obtain homozygous inbred lines that lack a functional copy of the mammalian gene.

Knockin Analysis

ES cells can be used to create knockin humanized animals (pigs) or transgenic animal models (mice or rats) of human diseases. With knockin technology, a region of a human gene is injected into animal ES cells, and the human sequence integrates into the animal cell genome. Transformed cells are injected into blastulae and the blastulae are implanted as described above. Transgenic progeny or

inbred lines are studied and treated with potential pharmaceutical agents to obtain information on treatment of the analogous human condition. These methods have been used to model several human diseases.

As described herein, the uses of the polynucleotides, provided in the Sequence Listing of this application, and their encoded polypeptides are exemplary of known techniques and are not intended to reflect any limitation on their use in any technique that would be known to the person of average skill in the art. Furthermore, the polynucleotides provided in this application may be used in molecular biology techniques that have not yet been developed, provided the new techniques rely on properties of nucleotide sequences that are currently known to the person of ordinary skill in the art, e.g., the triplet genetic code, specific base pair interactions, and the like. Likewise, reference to a method may include combining more than one method for obtaining or assembling full length cDNA sequences that will be known to those skilled in the art.

It is to be understood that the invention is not limited to the particular methodology, protocols, and reagents described, as these may vary. It is also understood that the terminology used herein is for the purpose of describing particular embodiments only, and is not intended to limit the scope of the present invention which will be limited only by the appended claims. The examples below are provided to illustrate the subject invention and are not included for the purpose of limiting the invention.

EXAMPLES

I. Construction of cDNA Libraries

RNA was purchased from Clontech Laboratories, Inc. (Palo Alto CA) or isolated from various tissues. Some tissues were homogenized and lysed in guanidinium isothiocyanate, while others were homogenized and lysed in phenol or in a suitable mixture of denaturants, such as TRIZOL reagent (Life Technologies, Rockville MD). The resulting lysates were centrifuged over CsCl cushions or extracted with chloroform. RNA was precipitated with either isopropanol or ethanol and sodium acetate, or by other routine methods.

Phenol extraction and precipitation of RNA were repeated as necessary to increase RNA purity. In most cases, RNA was treated with DNase. For most libraries, poly(A) RNA was isolated using oligo d(T)-coupled paramagnetic particles (Promega), OLIGOTEX latex particles (Qiagen, Valencia CA), or an OLIGOTEX mRNA purification kit (Qiagen). Alternatively, poly(A) RNA was isolated directly from tissue lysates using other kits, including the POLY(A)PURE mRNA purification kit (Ambion, Austin TX).

In some cases, Stratagene (La Jolla, CA) was provided with RNA and constructed the corresponding cDNA libraries. Otherwise, cDNA was synthesized and cDNA libraries were constructed with the UNIZAP vector system (Stratagene) or SUPERScript plasmid system (Life

Technologies) using the recommended procedures or similar methods known in the art. (See Ausubel, *supra*, Units 5.1 through 6.6.) Reverse transcription was initiated using oligo d(T) or random primers. Synthetic oligonucleotide adapters were ligated to double stranded cDNA, and the cDNA was digested with the appropriate restriction enzyme or enzymes. For most libraries, the cDNA was size-selected
 5 (300-1000 bp) using SEPHACRYL S1000, SEPHAROSE CL2B, or SEPHAROSE CL4B column chromatography (Amersham Pharmacia Biotech, Piscataway NJ) or preparative agarose gel electrophoresis. cDNAs were ligated into compatible restriction enzyme sites of the polylinker of the PBLUESCRIPT plasmid (Stratagene), PSORT1 plasmid (Life Technologies), or PINCY plasmid (Incyte Pharmaceuticals). Recombinant plasmids were transformed into XL1-Blue, XL1-BlueMRF, or
 10 SOLR competent *E. coli* cells (Stratagene) or DH5 α , DH10B, or ELECTROMAX DH10B competent *E. coli* cells (Life Technologies).

In some cases, libraries were superinfected with a 5x excess of the helper phage, M13K07, according to the method of Vieira *et al.* (1987, *Methods Enzymol.* 153:3-11) and normalized or subtracted using a methodology adapted from Soares (1994, *Proc Natl Acad Sci* 91:9228-9232),
 15 Swaroop *et al.* (1991, *Nucl Acids Res* 19:1954), and Bonaldo *et al.* (1996, *Genome Research* 6:791-806). The modified Soares normalization procedure was utilized to reduce the repetitive cloning of highly expressed high abundance cDNAs while maintaining the overall sequence complexity of the library. Modification included significantly longer hybridization times which allowed for increased gene discovery rates by biasing the normalized libraries toward those infrequently expressed low-
 20 abundance cDNAs which are poorly represented in a standard transcript image (Soares *et al.*, *supra*).

II. Isolation and Sequencing of cDNA Clones

Plasmids were recovered from host cells by *in vivo* excision using the UNIZAP vector system (Stratagene) or by cell lysis. Plasmids were purified using one of the following: the Magic or WIZARD Minipreps DNA purification system (Promega); the AGTC Miniprep purification kit (Edge
 25 BioSystems, Gaithersburg MD); the QIAWELL 8, QIAWELL 8 Plus, or QIAWELL 8 Ultra plasmid purification systems, or the R.E.A.L. PREP 96 plasmid purification kit (QIAGEN). Following precipitation, plasmids were resuspended in 0.1 ml of distilled water and stored, with or without lyophilization, at 4°C.

Alternatively, plasmid DNA was amplified from host cell lysates using direct link PCR in a
 30 high-throughput format (Rao (1994) *Anal Biochem* 216:1-14). Host cell lysis and thermal cycling steps were carried out in a single reaction mixture. Samples were processed and stored in 384-well plates, and the concentration of amplified plasmid DNA was quantified fluorometrically using PICOGREEN dye (Molecular Probes) and a FLUOROSKAN II fluorescence scanner (Labsystems Oy, Helsinki, Finland).

cDNA sequencing reactions were processed using standard methods or high-throughput instrumentation such as the ABI CATALYST 800 thermal cycler (PE Biosystems) or the DNA ENGINE thermal cycler (MJ Research, Watertown MA) in conjunction with the HYDRA microdispenser (Robbins Scientific, Sunnyvale CA) or the MICROLAB 2200 system (Hamilton, Reno NV). cDNA sequencing reactions were prepared using reagents provided by Amersham Pharmacia Biotech or supplied in ABI sequencing kits such as the ABI PRISM BIGDYE cycle sequencing kit (PE Biosystems). Electrophoretic separation of cDNA sequencing reactions and detection of labeled polynucleotides were carried out using the MEGABACE 1000 DNA sequencing system (Amersham Pharmacia Biotech); the ABI PRISM 373 or 377 sequencing system (PE Biosystems) in conjunction with standard ABI protocols and base calling software; or other sequence analysis systems known in the art. Reading frames within the cDNA sequences were identified using standard methods (reviewed in Ausubel, *supra*, Unit 7.7).

III. Extension of cDNA Sequences

Nucleic acid sequences were extended using Incyte cDNA clones and oligonucleotide primers. One primer was synthesized to initiate 5' extension of the known fragment, and the other, to initiate 3' extension of the known fragment. The initial primers were designed using OLIGO 4.06 software (National Biosciences), or another appropriate program, to be about 22 to 30 nucleotides in length, to have a GC content of about 50% or more, and to anneal to the target sequence at temperatures of about 68°C to about 72°C. Any stretch of nucleotides which would result in hairpin structures and primer-primer dimerizations was avoided.

Selected human cDNA libraries were used to extend the sequence. If more than one extension was necessary or desired, additional or nested sets of primers were designed. Preferred libraries are ones that have been size-selected to include larger cDNAs. Also, random primed libraries are preferred because they will contain more sequences with the 5' and upstream regions of genes. A randomly primed library is particularly useful if an oligo d(T) library does not yield a full-length cDNA.

High fidelity amplification was obtained by PCR using methods well known in the art. PCR was performed in 96-well plates using the DNA ENGINE thermal cycler (MJ Research). The reaction mix contained DNA template, 200 nmol of each primer, reaction buffer containing Mg^{2+} , $(NH_4)_2SO_4$, and β -mercaptoethanol, Taq DNA polymerase (Amersham Pharmacia Biotech), ELONGASE enzyme (Life Technologies), and Pfu DNA polymerase (Stratagene), with the following parameters for primer pair PCI A and PCI B (Incyte Pharmaceuticals): Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 60°C, 1 min; Step 4: 68°C, 2 min; Step 5: Steps 2, 3, and 4 repeated 20 times; Step 6: 68°C, 5 min; Step 7: storage at 4°C. In the alternative, the parameters for primer pair T7 and SK+ (Stratagene) were as follows: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 57°C, 1 min; Step 4: 68°C, 2 min;

Step 5: Steps 2, 3, and 4 repeated 20 times; Step 6: 68°C, 5 min; Step 7: storage at 4°C.

The concentration of DNA in each well was determined by dispensing 100 µl PICOGREEN reagent (0.25% reagent in 1x TE, v/v; Molecular Probes) and 0.5 µl of undiluted PCR product into each well of an opaque fluorimeter plate (Corning Costar, Acton MA) and allowing the DNA to bind to the reagent. The plate was scanned in a Fluoroskan II (Labsystems Oy) to measure the fluorescence of the sample and to quantify the concentration of DNA. A 5 µl to 10 µl aliquot of the reaction mixture was analyzed by electrophoresis on a 1% agarose mini-gel to determine which reactions were successful in extending the sequence.

The extended nucleic acids were desalted and concentrated, transferred to 384-well plates, digested with CviJI cholera virus endonuclease (Molecular Biology Research, Madison WI), and sonicated or sheared prior to religation into pUC18 vector (Amersham Pharmacia Biotech). For shotgun sequencing, the digested nucleic acids were separated on low concentration (0.6 to 0.8%) agarose gels, fragments were excised, and agar digested with AGARACE enzyme (Promega).

Extended clones were religated using T4 DNA ligase (New England Biolabs, Beverly MA) into pUC18 vector (Amersham Pharmacia Biotech), treated with Pfu DNA polymerase (Stratagene) to fill-in restriction site overhangs, and transfected into competent *E. coli* cells. Transformed cells were selected on antibiotic-containing media, and individual colonies were picked and cultured overnight at 37°C in 384-well plates in LB/2x carbenicillin liquid media.

The cells were lysed, and DNA was amplified by PCR using Taq DNA polymerase (Amersham Pharmacia Biotech) and Pfu DNA polymerase (Stratagene) with the following parameters: Step 1: 94°C, 3 min; Step 2: 94°C, 15 sec; Step 3: 60°C, 1 min; Step 4: 72°C, 2 min; Step 5: steps 2, 3, and 4 repeated 29 times; Step 6: 72°C, 5 min; Step 7: storage at 4°C. DNA was quantified using PICOGREEN reagent (Molecular Probes) as described above. Samples with low DNA recoveries were reamplified using the same conditions described above. Samples were diluted with 20% dimethylsulfoxide (DMSO; 1:2, v/v), and sequenced using DYENAMIC energy transfer sequencing primers and the DYENAMIC DIRECT cycle sequencing kit (Amersham Pharmacia Biotech) or the ABI PRISM BIGDYE terminator cycle sequencing kit (PE Biosystems).

IV. Assembly and Analysis of Sequences

Component nucleotide sequences from chromatograms were subjected to PHRED analysis (Phil's Revised Editing Program; Phil Green, University of Washington, Seattle WA) and assigned a quality score. The sequences having at least a required quality score were subject to various pre-processing algorithms to eliminate low quality 3' ends, vector and linker sequences, polyA tails, Alu repeats, mitochondrial and ribosomal sequences, bacterial contamination sequences, and sequences smaller than 50 base pairs.

Sequences were screened using the BLOCK 2 program (Incyte Pharmaceuticals), a motif analysis program based on sequence information contained in the SWISS-PROT and PROSITE databases (Bairoch *et al.* (1997) *Nucleic Acids Res.* 25:217-221; Attwood *et al.* (1997) *J. Chem. Inf. Comput. Sci.* 37:417-424).

- 5 Processed sequences were subjected to assembly procedures in which the sequences were assigned to bins, one sequence per bin. Sequences in each bin were assembled to produce consensus sequences, templates. Subsequent new sequences were added to existing bins using the Basic Local Alignment Search Tool (BLAST; Altschul (1993) *J. Mol. Evol.* 36:290-300; Altschul *et al.* (1990) *J. Mol. Biol.* 215:403-410; Karlin *et al.* (1988) *Proc. Natl. Acad. Sci.* 85:841-845), BLASTn (v.1.4, WashU), and CROSSMATCH software (Phil Green, *supra*). Candidate pairs were identified as all BLAST hits having a quality score greater than or equal to 150. Alignments of at least 82% local identity were accepted into the bin. The component sequences from each bin were assembled using PHRAP (Phil's Revised Alignment Program; Phil Green, *supra*). Bins with several overlapping component sequences were assembled using DEEP PHRAP (Phil Green, *supra*).
- 15 Bins were compared against each other, and those having local similarity of at least 82% were combined and reassembled. Reassembled bins having templates of insufficient overlap (less than 95% local identity) were re-split. Assembled templates were also subjected to analysis by STITCHER/EXON MAPPER algorithms which analyzed the probabilities of the presence of splice variants, alternatively spliced exons, splice junctions, differential expression of alternative spliced genes
- 20 across tissue types, disease states, and the like. These resulting bins were subjected to several rounds of the above assembly procedures to generate the template sequences found in the LIFESEQ GOLD database (Incyte Pharmaceuticals).

- The assembled templates were annotated using the following procedure. Template sequences were analyzed using BLASTn (v2.0, NCBI) versus GBpri (GenBank version 109). "Hits" were
- 25 defined as an exact match having from 95% local identity over 200 base pairs through 100% local identity over 100 base pairs, or a homolog match having an E-value of 1×10^{-8} . The hits were subjected to frameshift FASTx versus GENPEPT (GenBank version 109). In this analysis, a homolog match was defined as having an E-value of 1×10^{-8} . The assembly method used above was described in "Database and System for Storing, Comparing and Displaying Related Biomolecular Sequence
- 30 Information," U.S.S.N. 09/276,534, filed March 25, 1999, incorporated by reference herein, and the LIFESEQ GOLD user manual (Incyte Pharmaceuticals).

Following assembly, template sequences were subjected to motif, BLAST, Hidden Markov Model (HMM; Pearson and Lipman (1988) *Proc Natl Acad Sci* 85:2444-2448; Smith and Waterman (1981) *J Mol Biol* 147:195-197), and functional analyses, and categorized in protein hierarchies using

methods described in "Database System Employing Protein Function Hierarchies for Viewing Biomolecular Sequence Data," U.S.S.N. 08/812,290, filed March 6, 1997; "Relational Database for Storing Biomolecule Information," U.S.S.N. 08/947,845, filed October 9, 1997; "Project-Based Full-Length Biomolecular Sequence Database," U.S.P.N. 5,953,727;; and "Relational Database and System
5 for Storing Information Relating to Biomolecular Sequences," U.S.S.N. 09/034,807, filed March 4, 1998, all of which are incorporated by reference herein. Template sequences may be further queried against public databases such as the GenBank rodent, mammalian, vertebrate, eukaryote, prokaryote, and human EST databases.

V. Preparation of Microarrays

10 The polynucleotides present on the human UNIGEM V 2.0 microarray (Incyte Pharmaceuticals) represent template sequences derived from the LIFESEQ GOLD assembled human sequence database (Incyte Pharmaceuticals) based on a non-redundant set of gene-oriented clusters derived from IMAGE (integrated molecular analysis of genomes and their expression) cDNA library clones and derived ESTs in the gbEST database (National Center for Biotechnology Information,
15 National Library of Medicine, Bethesda, MD). A single clone representing each particular template was used on the microarray. Polynucleotides were amplified from bacterial cells using primers complementary to vector sequences flanking the cDNA insert. Thirty cycles of PCR increased the initial quantity of polynucleotide from 1-2 ng to a final quantity greater than 5 µg. Amplified polynucleotides were then purified using SEPHACRYL-400 columns (Amersham Pharmacia Biotech).

20 Purified polynucleotides were immobilized on polymer-coated glass slides. Glass microscope slides (Corning, Corning NY) were cleaned by ultrasound in 0.1% SDS and acetone, with extensive distilled water washes between and after treatments. Glass slides were etched in 4% hydrofluoric acid (VWR Scientific Products Corporation, West Chester PA), washed extensively in distilled water, and coated with 0.05% aminopropyl silane (Sigma Aldrich, St. Louis MO) in 95% ethanol. Coated slides
25 were cured in a 110°C oven. polynucleotides were applied to the coated glass substrate using a procedure described in U.S.P.N. 5,807,522, incorporated herein by reference. One microliter of the polynucleotide at an average concentration of 100 ng/ul was loaded into the open capillary printing element by a high-speed robotic apparatus which then deposited about 5 nl of polynucleotide per slide.

Microarrays were UV-crosslinked using a STRATALINKER UV-crosslinker (Stratagene),
30 and then washed at room temperature once in 0.2% SDS and three times in distilled water. Non-specific binding sites were blocked by incubation of microarrays in 0.2% casein in phosphate buffered saline (Tropix, Bedford MA) for 30 minutes at 60°C followed by washes in 0.2% SDS and distilled water as before.

VI. Preparation of Target Polynucleotides

Human THP-1 cells (American Type Culture Collection, Manassas VA) were grown in RPMI1640 medium containing 10% fetal serum (v/v), 0.45% glucose (w/v), 10mM Hepes, 1mM sodium pyruvate, 1×10^{-5} M β -mercaptoethanol, penicillin (100 units/ml) and streptomycin (100 mg/ml). For oxidized-LDL loading experiments, cells were seeded at a density of 1×10^6 cells/ml in medium containing 12-O-tetradecanoyl-phorbol-13-acetate (Research Biochemical International, Natick MA) at 1×10^{-7} M for 24 hr. The medium was then replaced by culture medium with or without 100 μ g/ml of CuSO_4 "fully" oxidized LDL (Intracel, Rockville MD) according to the method of Hammer *et al.* (1995; Arterio Thromb Vasc Biol 15:704-713). Medium was replaced every two days during the time of culture. Cells were treated with Ox-LDL over time points ranging from 30 minutes to 4 days. During this period, cells remained adherent and had a typical speckled Nile red staining pattern. RNA was prepared for expression profiling at 0, 0.5, 2.5, and 8 hours, and 1, 2, and 4 days of Ox-LDL exposure.

Total RNA was extracted using the RNA STAT-60 kit (Tel-Test, Friendswood TX). Poly(A) RNA was purified using the POLYATRACT mRNA isolation system (Promega). Each poly(A) RNA sample was reverse transcribed using MMLV reverse-transcriptase, 0.05 pg/ μ l oligo-dT primer (21mer), 1x first strand buffer, 0.03 units/ μ l RNase inhibitor, 500 uM dATP, 500 uM dGTP, 500 uM dTTP, 40 uM dCTP, and 40 uM either dCTP-Cy3 or dCTP-Cy5 (Amersham Pharmacia Biotech). The reverse transcription reaction was performed in a 25 ml volume containing 200 ng poly(A) RNA using the GEMBRIGHT kit (Incyte Pharmaceuticals). Specific control poly(A) RNAs (YCFR06, YCFR45, YCFR67, YCFR85, YCFR43, YCFR22, YCFR23, YCFR25, YCFR44, YCFR26) were synthesized by *in vitro* transcription from non-coding yeast genomic DNA (W. Lei, unpublished). As quantitative controls, control mRNAs (YCFR06, YCFR45, YCFR67, and YCFR85) at 0.002ng, 0.02ng, 0.2 ng, and 2ng were diluted into reverse transcription reaction at ratios of 1:100,000, 1:10,000, 1:1000, 1:100 (w/w) to sample mRNA, respectively. To sample differential expression patterns, control mRNAs (YCFR43, YCFR22, YCFR23, YCFR25, YCFR44, YCFR26) were diluted into reverse transcription reaction at ratios of 1:3, 3:1, 1:10, 10:1, 1:25, 25:1 (w/w) to sample mRNA. Reactions were incubated at 37°C for 2 hr, treated with 2.5 ml of 0.5M sodium hydroxide, and incubated for 20 minutes at 85°C to stop the reaction and degrade the RNA.

Probes were purified using two successive CHROMA SPIN 30 gel filtration spin columns (Clontech). Cy3- and Cy5-labeled reaction samples were combined as described below and ethanol precipitated using 1 ml of glycogen (1 mg/ml), 60 ml sodium acetate, and 300 ml of 100% ethanol. The probe was then dried to completion using a SpeedVAC system (Savant Instruments, Holbrook NY) and resuspended in 14 μ l 5X SSC/0.2% SDS.

VII. Hybridization and Detection

Hybridization reactions contained 9 μ l of probe mixture consisting of 0.2 μ g each of Cy3 and Cy5 labeled cDNA synthesis products from pairs of matched time point experimental and control cells in 5X SSC, 0.2% SDS hybridization buffer. The target mixture was heated to 65°C for 5 minutes and was aliquoted onto the microarray surface and covered with an 1.8 cm² coverslip. The microarrays were transferred to a waterproof chamber having a cavity just slightly larger than a microscope slide. The chamber was kept at 100% humidity internally by the addition of 140 μ l of 5x SSC in a corner of the chamber. The chamber containing the microarrays was incubated for about 6.5 hours at 60°C. The microarrays were washed for 10 min at 45°C in low stringency wash buffer (1x SSC, 0.1% SDS), three times for 10 minutes each at 45°C in high stringency wash buffer (0.1x SSC), and dried.

Reporter-labeled hybridization complexes were detected with a microscope equipped with an Innova 70 mixed gas 10 W laser (Coherent, Santa Clara CA) capable of generating spectral lines at 488 nm for excitation of Cy3 and at 632 nm for excitation of Cy5. The excitation laser light was focused on the microarray using a 20X microscope objective (Nikon, Melville NY). The slide containing the microarray was placed on a computer-controlled X-Y stage on the microscope and raster-scanned past the objective. The 1.8 cm x 1.8 cm microarray used in the present example was scanned with a resolution of 20 micrometers.

In two separate scans, the mixed gas multiline laser excited the two fluorophores sequentially. Emitted light was split, based on wavelength, into two photomultiplier tube detectors (PMT R1477; Hamamatsu Photonics Systems, Bridgewater NJ) corresponding to the two fluorophores. Appropriate filters positioned between the microarray and the photomultiplier tubes were used to filter the signals. The emission maxima of the fluorophores used were 565 nm for Cy3 and 650 nm for Cy5. Each microarray was typically scanned twice, one scan per fluorophore using the appropriate filters at the laser source, although the apparatus was capable of recording the spectra from both fluorophores simultaneously.

The sensitivity of the scans was calibrated using the signal intensity generated by a cDNA control species. Samples of the calibrating cDNA were separately labeled with the two fluorophores and identical amounts of each were added to the hybridization mixture. A specific location on the microarray contained a complementary DNA sequence, allowing the intensity of the signal at that location to be correlated with a weight ratio of hybridizing species of 1:100,000.

The output of the photomultiplier tube was digitized using a 12-bit RTI-835H analog-to-digital (A/D) conversion board (Analog Devices, Norwood, MA) installed in an IBM-compatible PC computer. The digitized data were displayed as an image where the signal intensity was mapped using a linear 20-color transformation to a pseudocolor scale ranging from blue (low signal) to red (high signal). The data was also analyzed quantitatively. Where two different fluorophores were excited and measured simultaneously, the data were first corrected for optical crosstalk (due to overlapping

emission spectra) between the fluorophores using each fluorophore's emission spectrum.

A grid was superimposed over the fluorescence signal image such that the signal from each spot was centered in each element of the grid. The fluorescence signal within each element was then integrated to obtain a numerical value corresponding to the average intensity of the signal. The software used for signal analysis was the GEMTOOLS gene expression analysis program (Incyte Pharmaceuticals).

VIII. Data Analysis and Results

An agglomerative cluster analysis was used to identify the typical response patterns and establish the relationships between the different gene expression profiles. Each gene measurement was first normalized by dividing the expression ratios by the maximum value for each time series. To emphasize the variation from one time point to the next, slopes were added to the expression vectors by taking the expression differences between consecutive time points. The Euclidean distance was used as a similarity measure for the expression responses.

The agglomerative algorithm employed constructs a dendrogram. Starting with N clusters each containing a single gene, at each step in the iteration the two closest clusters were merged into a larger cluster. The distance between clusters was defined as the distance between their average expression patterns. After N-1 steps all the data points were merged together. The clustering process defines a hierarchical tree. Genes were automatically assigned to a cluster by cutting the tree between the root and each gene branch with a set of 10 lines ("branch levels") separated by fixed distances. The branch level cut-off forms a cluster. The tree was first 'normalized' so that each branch was at the same distance from the root. In order to preserve the distance between the closest genes, the tree was distorted at the branch furthest from the leaf. The number of branches intersecting at each branch level of the tree equals the number of clusters at that level.

Division of the tree at branch level 5 divides the genes into 7 clusters of gene expression which include 276 differentially expressed genes and splice variants. In tables 1, columns 4 through 10 show the level of gene expression at each time point in response to Ox-LDL exposure vs. no Ox-LDL. Differential regulation has been normalized to a maximum value of 1.0 for each gene. White represents relative expression in response to Ox-LDL ranging from 0 – 25% of maximum for that particular gene; light gray from 26 – 50%; dark gray from 51 – 75%; black from 76 – 100%.

IX. Complementary Nucleic Acid Molecules

Molecules complementary to the polynucleotide, or a fragment thereof, are used to detect, decrease, or inhibit gene expression. Although use of oligonucleotides comprising from about 15 to about 30 base pairs is described, the same procedure is used with larger or smaller fragments or their derivatives (PNAs). Oligonucleotides are selected using OLIGO 4.06 software (National Biosciences) and SEQ ID NOs:1-278. To inhibit transcription by preventing promoter binding, a complementary

oligonucleotide is designed to bind to the most unique 5' sequence, most preferably about 10 nucleotides before the initiation codon of the open reading frame. To inhibit translation, a complementary oligonucleotide is designed to prevent ribosomal binding to the mRNA encoding the protein.

5 In addition to using antisense molecules constructed to interrupt transcription or translation, modifications of gene expression can be obtained by designing antisense molecules to genomic sequences (such as enhancers or introns) or even to trans-acting regulatory genes. Similarly, antisense inhibition can be achieved using Hogeboom base-pairing methodology, also known as "triple helix" base pairing. Antisense molecules involved in triple helix pairing compromise the ability of the double
10 helix to open sufficiently for the binding of polymerases, transcription factors, or regulatory molecules.

Such antisense molecules are placed in expression vectors and used to transform preferred cells or tissues. This may include introduction of the expression vector into a cell line to test efficacy; into an organ, tumor, synovial cavity, or the vascular system for transient or short term therapy; or into a stem cell or other reproducing lineage for long term or stable gene therapy. Transient expression may
15 last for a month or more with a non-replicating vector and for three months or more if appropriate elements for inducing vector replication are used in the transformation/expression system.

Stable transformation of appropriate dividing cells with a vector encoding the antisense molecule can produce a transgenic cell line, tissue, or organism (USPN 4,736,866). Those cells that assimilate and replicate sufficient quantities of the vector to allow stable integration also produce
20 enough antisense molecules to compromise or entirely eliminate activity of the polynucleotide.

X. Hybridization Technologies and Analyses

Hybridization technology utilizes a variety of substrates such as polymer coated glass slides and nylon membranes. Arranging elements on polymer coated slides is described in Example V; probe preparation and hybridization and analysis using polymer coated slides is described in examples VI and
25 VII, respectively.

Polynucleotides are applied to a membrane substrate by one of the following methods. A mixture of polynucleotides is fractionated by gel electrophoresis and transferred to a nylon membrane by capillary transfer. Alternatively, the polynucleotides are individually ligated to a vector and inserted into bacterial host cells to form a library. The polynucleotides are then arranged on a substrate by one
30 of the following methods. In the first method, bacterial cells containing individual clones are robotically picked and arranged on a nylon membrane. The membrane is placed on LB agar containing selective agent (carbenicillin, kanamycin, ampicillin, or chloramphenicol depending on the vector used) and incubated at 37°C for 16 hr. The membrane is removed from the agar and consecutively placed colony side up in 10% SDS, denaturing solution (1.5 M NaCl, 0.5 M NaOH), neutralizing solution
35 (1.5 M NaCl, 1 M Tris, pH 8.0), and twice in 2xSSC for 10 min each. The membrane is then UV

irradiated in a STRATALINKER UV-crosslinker (Stratagene).

In the second method, polynucleotides are amplified from bacterial vectors by thirty cycles of PCR using primers complementary to vector sequences flanking the insert. PCR amplification increases a starting concentration of 1-2 ng nucleic acid to a final quantity greater than 5 µg.

- 5 Amplified nucleic acids from about 400 bp to about 5000 bp in length are purified using SEPHACRYL-400 beads (Amersham Pharmacia Biotech). Purified nucleic acids are arranged on a nylon membrane manually or using a dot/slot blotting manifold and suction device and are immobilized by denaturation, neutralization, and UV irradiation as described above.

- Hybridization probes derived from polynucleotides of the Sequence Listing are employed for
10 screening cDNAs, mRNAs, or genomic DNA in membrane-based hybridizations. Probes are prepared by diluting the polynucleotides to a concentration of 40-50 ng in 45 µl TE buffer, denaturing by heating to 100°C for five min, and briefly centrifuging. The denatured polynucleotide is then added to a REDIPRIME tube (Amersham Pharmacia Biotech), gently mixed until blue color is evenly distributed, and briefly centrifuged. Five microliters of [³²P]dCTP is added to the tube, and the contents are
15 incubated at 37°C for 10 min. The labeling reaction is stopped by adding 5 µl of 0.2M EDTA, and probe is purified from unincorporated nucleotides using a PROBEQUANT G-50 microcolumn (Amersham Pharmacia Biotech). The purified probe is heated to 100°C for five min, snap cooled for two min on ice.

- Membranes are pre-hybridized in hybridization solution containing 1% Sarkosyl and 1x high
20 phosphate buffer (0.5 M NaCl, 0.1 M Na₂HPO₄, 5 mM EDTA, pH 7) at 55°C for two hr. The probe, diluted in 15 ml fresh hybridization solution, is then added to the membrane. The membrane is hybridized with the probe at 55°C for 16 hr. Following hybridization, the membrane is washed for 15 min at 25°C in 1mM Tris (pH 8.0), 1% Sarkosyl, and four times for 15 min each at 25°C in 1mM Tris (pH 8.0). To detect hybridization complexes, XOMAT-AR film (Eastman Kodak, Rochester NY) is
25 exposed to the membrane overnight at -70°C, developed, and examined visually.

XI. Expression of the Encoded Protein

- Expression and purification of a protein encoded by a polynucleotide of the invention is achieved using bacterial or virus-based expression systems. For expression in bacteria, cDNA is subcloned into a vector containing an antibiotic resistance gene and an inducible promoter that directs
30 high levels of cDNA transcription. Examples of such promoters include, but are not limited to, the *trp-lac* (*tac*) hybrid promoter and the T5 or T7 bacteriophage promoter in conjunction with the *lac* operator regulatory element. Recombinant vectors are transformed into bacterial hosts, such as BL21(DE3). Antibiotic resistant bacteria express the protein upon induction with isopropyl beta-D-thiogalactopyranoside (IPTG). Expression in eukaryotic cells is achieved by infecting *Spodoptera*
35 *frugiperda* (Sf9) insect cells with recombinant baculovirus, *Autographica californica* nuclear

polyhedrosis virus. The polyhedrin gene of baculovirus is replaced with the polynucleotide by either homologous recombination or bacterial-mediated transposition involving transfer plasmid intermediates. Viral infectivity is maintained and the strong polyhedrin promoter drives high levels of polynucleotide transcription.

- 5 For ease of purification, the protein is synthesized as a fusion protein with glutathione-S-transferase (GST; Amersham Pharmacia Biotech) or a similar alternative such as FLAG. The fusion protein is purified on immobilized glutathione under conditions that maintain protein activity and antigenicity. After purification, the GST moiety is proteolytically cleaved from the protein with thrombin. A fusion protein with FLAG, an 8-amino acid peptide, is purified using commercially
10 available monoclonal and polyclonal anti-FLAG antibodies (Eastman Kodak, Rochester NY).

XII. Production of Specific Antibodies

- A denatured polypeptide from a reverse phase HPLC separation is obtained in quantities up to 75 mg. This denatured protein is used to immunize mice or rabbits following standard protocols. About 100 µg is used to immunize a mouse, while up to 1 mg is used to immunize a rabbit. The
15 denatured polypeptide is radioiodinated and incubated with murine B-cell hybridomas to screen for monoclonal antibodies. About 20 mg of polypeptide is sufficient for labeling and screening several thousand clones.

- In another approach, the amino acid sequence translated from a polynucleotide of the invention is analyzed using PROTEAN software (DNASTAR) to determine regions of high immunogenicity.
20 The optimal sequences for immunization are usually at the C-terminus, the N-terminus, and those intervening, hydrophilic regions of the polypeptide that are likely to be exposed to the external environment when the polypeptide is in its natural conformation. Typically, oligopeptides about 15 residues in length are synthesized using an ABI 431 Peptide synthesizer (PE Biosystems) using Fmoc-chemistry and then coupled to keyhole limpet hemocyanin (KLH; Sigma Aldrich) by reaction
25 with M-maleimidobenzoyl-N-hydroxysuccinimide ester. If necessary, a cysteine may be introduced at the N-terminus of the peptide to permit coupling to KLH. Rabbits are immunized with the oligopeptide-KLH complex in complete Freund's adjuvant. The resulting antisera are tested for anti-peptide activity by binding the peptide to plastic, blocking with 1% BSA, reacting with rabbit antisera, washing, and reacting with radioiodinated goat anti-rabbit IgG.

- 30 Hybridomas are prepared and screened using standard techniques. Hybridomas of interest are detected by screening with radioiodinated polypeptide to identify those fusions producing a monoclonal antibody specific for the polypeptide. In a typical protocol, wells of 96 well plates (FAST, Becton-Dickinson, Palo Alto CA) are coated with affinity-purified, specific rabbit-anti-mouse (or suitable anti-species Ig) antibodies at 10 mg/ml. The coated wells are blocked with 1% BSA and
35 washed and exposed to supernatants from hybridomas. After incubation, the wells are exposed to

radiolabeled polypeptide at 1 mg/ml. Clones producing antibodies bind a quantity of labeled polypeptide that is detectable above background.

Such clones are expanded and subjected to 2 cycles of cloning at 1 cell/3 wells. Cloned hybridomas are injected into pristane-treated mice to produce ascites, and monoclonal antibody is
5 purified from the ascitic fluid by affinity chromatography on protein A (Amersham Pharmacia Biotech). Monoclonal antibodies with affinities of at least 10^8 M^{-1} , preferably 10^9 to 10^{10} M^{-1} or stronger, are made by procedures well known in the art.

XIII. Purification of Naturally Occurring Protein Using Specific Antibodies

10 Naturally occurring or recombinant protein is substantially purified by immunoaffinity chromatography using antibodies specific for the protein. An immunoaffinity column is constructed by covalently coupling the antibody to CNBr-activated SEPHAROSE resin (Amersham Pharmacia Biotech). Media containing the protein is passed over the immunoaffinity column, and the column is washed using high ionic strength buffers in the presence of detergent to allow preferential absorbance of
15 the protein. After coupling, the protein is eluted from the column using a buffer of pH 2-3 or a high concentration of urea or thiocyanate ion to disrupt antibody/protein binding, and the protein is collected.

XIV. Screening Molecules for Specific Binding

The polynucleotide or fragments thereof are labeled with ^{32}P -dCTP, Cy3-dCTP, Cy5-dCTP
20 (Amersham Pharmacia Biotech), or the protein or portions thereof are labeled with BIODIPY or FITC (Molecular Probes). A library or a plurality of candidate molecules or compounds previously arranged on a substrate are incubated in the presence of labeled polynucleotide or protein. After incubation under conditions for a polynucleotide or protein, the substrate is washed. Any position on the substrate retaining label, that indicates specific binding or complex formation, identifies a ligand. Data obtained
25 using different concentrations of the polynucleotide or polypeptide are used to calculate affinity between the labeled polynucleotide or protein and the bound ligand.

All publications and patents mentioned in the above specification are herein incorporated by reference. Various modifications and variations of the described method and system of the invention
30 will be apparent to those skilled in the art without departing from the scope and spirit of the invention. Although the invention has been described in connection with specific preferred embodiments, it should be understood that the invention as claimed should not be unduly limited to such specific embodiments. Indeed, various modifications of the above-described modes for carrying out the invention which are obvious to those skilled in the field of molecular biology or related fields are intended to be within the
35 scope of the following claims.

TABLE 1

SEQ ID NO	Incye ID	Gene Annotation	40	50	25	50	10	20	30	40	Cluster
1	440295.1	Human SBC2 mRNA for sodium bicarbonate transporter 2, complete cds.	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1
2	g34387	annexin I (lipocortin I)	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	2
3	247178.2	sperm surface protein	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
4	567938	integrin, alpha X (antigen CD11C (p150), alpha polypeptide)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
5	351122.2	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
6	481379.9	paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
7	215391.7	phosphogluconate dehydrogenase	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	2
8	243812.1	protein kinase mitogen- activated 13	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
9	1085755.1	folate receptor 1 (adult)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
10	347809.3	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	2
11	331734.4	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	2
12	116840.38	interferon regulatory factor 3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	2
13	903565.11	proprotein convertase subtilisin/kexin type 4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
14	903565.8	Human mRNA for PACE4E-1, complete cds.	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	2
15	474310.13	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	2
16	413006.13	differentiated Embryo Chondrocyte expressed gene 1	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	2
17	76460.2	pyridoxal (pyridoxine, vitamin B6) kinase	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	2
18	474374.4	pim-1 oncogene	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
19	427792.8	cathepsin B	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
20	364482.3	carnitine palmitoyltransferase I, liver	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
21	978487.1	carnitine palmitoyltransferase I, liver	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
22	410626.2	Human retinoid X receptor-gamma mRNA, complete cds	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
23	234480.6	glutaredoxin (thioltransferase)	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	2
24	253542.2	dual specificity phosphatase 5	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	2
25	234202.24	microsomal glutathione S-transferase 1	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	2
26	253946.4	interleukin 6 signal transducer (gp130, oncostatin M receptor)	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	2
27	348801.1	pro-platelet basic protein	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	2
28	980611.1	matrilin 1, cartilage matrix protein	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	2
29	283885.8	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
30	348196.33	antigen identified by monoclonal antibodies 4F2, TRA1.10, TROP4, and T43	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
31	256009.4	AENAK nucleoprotein (desmoyokin)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2
32	481594.12	Human RACH1 (RACH1) mRNA, complete cds	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	2
33	978788.1	Human RACH1 (RACH1) mRNA, complete cds	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	2

TABLE 1

SEQ ID NO	Incyte ID	Gene Annotation
34	335171.1	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
35	998433.2	ESTs, Highly similar to DIAMINE ACETYLTRANSFERASE [H.sapiens]
36	221928.9	ESTs
37	331291.3	Homo sapiens mRNA for KIAA0291 gene, partial cds
38	233331.3	Homo sapiens KIAA0439 mRNA, partial cds
39	474682.2	ESTs, Weakly similar to W01A11.2 gene product [C.elegans]
40	3161.7	ESTs, Weakly similar to (define not available 4529890) [H.sapiens]
41	984248.1	ESTs
42	196590.2	ESTs
43	255109.1	ESTs
44	238622.1	Human clone 46690 brain expressed mRNA from chromosome X
45	334385.3	Homo sapiens mRNA for KIAA0284 gene, partial cds
46	998997.1	ESTs
47	200578.1	ESTs
48	208134.1	ESTs
49	153659.2	interleukin 1 receptor antagonist
50	241930.15	liver X receptor, alpha
51	413466.5	adipose differentiation-related protein; adipophilin
52	3249239	colony stimulating factor 1 (macrophage)
53	337518.18	CD36 antigen (collagen type I receptor, thrombospondin receptor)
54	g3116213	SH3 binding protein
55	g5912216	SH3 binding protein
56	992917.1	ferritin, heavy polypeptide 1
57	411424.12	LIM and senescent cell antigen-like domains 1
58	995600.17	Homo sapiens clone 24649 mRNA sequence
59	441292.7	epithelial membrane protein 1
60	42176.5	Down syndrome candidate region 1
61	234537.3	5' nucleotidase (CD73)
62	470468.21	uridine phosphorylase
63	240120.3	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor)
64	28779.3	small inducible cytokine subfamily A (Cys-Cys), member 20
65	238627.2	BCL2-related protein A1
66	254107.1	thrombomodulin

TABLE 1

SEQ ID NO	Incyte ID	Gene Annotation	40	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	Cluster
67	330908.2	leukemia inhibitory factor (cholinergic differentiation factor)	0.3	0.3	0.3	0.2	0.4	1.0	0.3														4
68	g687589	Human (AFIq) mRNA, complete cds	0.5	0.5	0.5	0.3	0.4	0.3	1.0														1
69	197975.11	KIAA00763 gene product	0.4	0.4	0.4	0.4	0.4	0.6	1.0														1
70	227928.2	KIAA0429 gene product	0.3	0.4	0.3	0.3	0.3	0.5	1.0														1
71	258785.7	ESTs	0.3	0.4	0.3	0.2	0.3	0.2	1.0														1
72	977757.3	KIAA0237 gene product	0.3	0.4	0.3	0.3	0.3	0.4	1.0														1
73	232773.2	ESTs	0.3	0.3	0.3	0.3	0.3	0.4	1.0														1
74	g6634024	Human mRNA for KIAA0379 gene, partial cds	0.4	0.5	0.5	0.4	0.4	0.5	1.0														1
75	g4589571	ESTs, Weakly similar to DAP-1 beta [H.sapiens]	0.5	0.5	0.5	0.5	0.5	0.5	1.0														1
76	334370.3	KIAA0074 gene product	0.5	0.4	0.3	0.4	0.4	0.5	1.0														1
77	980461.1	ESTs	0.5	0.4	0.3	0.4	0.4	0.5	1.0														1
78	422969.4	KIAA0598 gene product	0.4	0.5	0.5	0.4	0.4	0.5	1.0														1
79	244150.4	Human mRNA for KIAA0194 gene, partial cds	0.4	0.5	0.5	0.4	0.4	0.5	1.0														1
80	410257.11	ESTs	0.4	0.5	0.4	0.4	0.4	0.5	1.0														2
81	28253.3	Homo sapiens chromosome 19, cosmid R28379	0.5	0.4	0.3	0.4	0.2	0.4	1.0														2
82	g31670	guanylate cyclase 1, soluble, alpha 2	0.5	0.4	0.3	0.4	0.4	0.5	1.0														1
83	977552.1	musculin (activated B-cell factor-1)	0.4	0.5	0.5	0.4	0.4	0.5	1.0														1
84	977552.2	Human activated B-cell factor-1 (ABF-1) mRNA, complete cds.	0.4	0.5	0.5	0.4	0.4	0.5	1.0														1
85	347829.6	yes-associated protein 65 kDa	0.3	0.3	0.3	0.3	0.4	0.4	1.0														1
86	251776.11	integrin, beta 5	0.5	0.4	0.3	0.4	0.2	0.4	1.0														1
87	343674.9	GTP-binding protein overexpressed in skeletal muscle	0.5	0.4	0.3	0.4	0.4	0.5	1.0														1
88	479136.1	core-binding factor, runt domain, alpha subunit 3	0.3	0.4	0.4	0.5	0.3	0.5	1.0														1
89	1078147.1	early development regulator 2 (homolog of polyhomeotic 2)	0.5	0.5	0.4	0.4	0.4	0.6	1.0														1
90	474275.1	podocalyxin-like	0.5	0.5	0.5	0.5	0.5	0.7	1.0														1
91	1320658	fibulin 1	0.4	0.4	0.3	0.5	0.4	0.5	1.0														1
92	242114.16	PTK2 protein tyrosine kinase 2	0.4	0.4	0.4	0.3	0.4	0.4	1.0														1
93	445186.7	LIM domain only 4	0.5	0.5	0.5	0.4	0.4	0.5	1.0														1
94	474496.2	toll-like receptor 2	0.4	0.5	0.4	0.5	0.4	0.8	1.0														1
95	257114.7	solute carrier family 31 (copper transporters), member 2	0.4	0.5	0.4	0.4	0.4	0.6	1.0														1
96	984005.1	high-mobility group (nonhistone chromosomal) protein isoform I-C	0.4	0.4	0.5	0.4	0.5	0.5	1.0														1
97	977667.1	complement component 5 receptor 1 (C5a ligand)	0.4	0.4	0.4	0.4	0.3	0.3	1.0														1
98	996862.4	TG-interacting factor (TALE family homeobox)	0.5	0.4	0.4	0.4	0.4	0.5	1.0														1
99	364940.19	spare/osteonectin, cwcv and kazal-like domains proteoglycan (testican)	0.4	0.3	0.3	0.3	0.1	0.3	1.0														1

TABLE 1

SEQ ID NO	Incye ID	Gene Annotation	0h	2.5h	5h	8h	1d	2d	4d	Cluster
133	245532.7	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
134	200972.2	Human putative cyclin G1 interacting protein mRNA, partial sequence	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
135	348061.1	glucan (1,4-alpha-), branching enzyme 1	0.4	0.4	0.4	0.4	0.4	0.4	0.4	2
136	233711.7	pyruvate dehydrogenase kinase, isoenzyme 4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2
137	256043.19	cathepsin L	0.4	0.5	0.4	0.5	0.8	0.8	1.0	2
138	445012.6	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1	0.5	0.5	0.5	0.5	0.5	0.5	1.0	2
139	g463906	syntaxin 4A (placental)	0.5	0.5	0.5	0.5	0.8	0.9	1.0	2
140	475621.1	CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2	0.4	0.5	0.4	0.5	0.4	0.4	1.0	2
141	216063.17	Human lysophospholipase homolog (HU-K5) mRNA, complete cds	0.4	0.4	0.4	0.4	0.8	0.8	1.0	2
142	1099498.9	apolipoprotein C-I	0.5	0.5	0.5	0.5	0.8	0.8	1.0	2
143	1099076.1	fatty acid binding protein 5 (psoriasis-associated)	0.4	0.4	0.4	0.4	0.5	0.5	1.0	2
144	902119.3	CD63 antigen (melanoma 1 antigen)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	2
145	g2982500	neuropathy target esterase	0.5	0.5	0.5	0.5	0.5	0.5	1.0	2
146	1097580.4	ras homolog gene family, member C	0.5	0.5	0.5	0.5	0.5	0.5	1.0	2
147	391851.1	ferritin, light polypeptide	0.5	0.5	0.5	0.5	0.5	0.5	1.0	2
148	13105.9	lectin, galactoside-binding, soluble, 3 (galectin 3)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	2
149	356248.4	inositol phosphate 5'-phosphatase 2 (synaptotagmin 2)	0.4	0.5	0.4	0.5	0.9	0.9	1.0	2
150	331045.1	phosphodiesterase 3B, cGMP-inhibited	0.4	0.4	0.5	0.3	0.9	0.8	1.0	2
151	482480.3	guanine nucleotide-releasing factor 2 (specific for crk proto-oncogene)	0.5	0.5	0.5	0.5	0.8	0.9	1.0	2
152	245099.8	target of myb1 (chicken) homolog	0.4	0.4	0.5	0.5	0.5	0.5	1.0	2
153	245481.2	ciliary neurotrophic factor receptor	0.5	0.5	0.5	0.5	0.5	0.5	1.0	2
154	225021.4	Burkitt lymphoma receptor 1, GTP-binding protein	0.5	0.5	0.5	0.5	0.5	0.5	1.0	2
155	451767.28	tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	2
156	902142.11	Homo sapiens leucocyte immunoglobulin-like receptor-5 (LIR-5) mRNA, complete cds	0.4	0.3	0.4	0.3	0.3	0.3	1.0	4
157	291095.5	cytochrome P450, subfamily I (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)	0.3	0.4	0.3	0.3	0.4	1.0	0.5	4
158	332919.4	H.sapiens mRNA for cytokine inducible nuclear protein	0.4	0.4	0.4	0.3	0.3	1.0	0.5	4
159	387130.26	choline kinase-like	0.4	0.4	0.4	0.3	0.3	1.0	0.5	4
160	410580.13	plasminogen activator inhibitor, type I	0.4	0.4	0.4	0.3	0.3	1.0	0.5	4
161	251715.1	early growth response 1	0.4	0.4	0.4	0.3	0.3	1.0	0.5	4
162	1799017F6	neuregulin 1	0.5	0.5	0.5	0.3	0.3	1.0	0.5	4
163	348891.1	BCL2/adenovirus E1B 19kD-interacting protein 3-like	0.5	0.5	0.5	0.3	0.3	1.0	0.5	4
164	903956.15	numb (Drosophila) homolog	0.5	0.4	0.4	0.4	0.5	1.0	0.5	4
165	235184.1	guanine nucleotide binding protein 11	0.5	0.4	0.4	0.5	0.5	1.0	0.5	4

TABLE 1

SEQ ID NO	Incye ID	Gene Annotation	0h	0.5h	2.5h	4h	p1	p2	p3	Cluster
166	330948.3	solute carrier family 9 (sodium/hydrogen exchanger), isoform 1	0.5	0.5	0.5	0.4	0.7	1.0	0.8	4
167	994057.1	thrombospondin 1	0.5	0.5	0.5	0.3	0.3	1.0	0.5	4
168	197301.4	phosphoprotein regulated by mitogenic pathways	0.4	0.4	0.3	0.3	0.5	1.0	0.6	4
169	476016.17	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	0.5	0.5	0.5	0.5	0.5	1.0	0.3	4
170	1098409.1	early growth response 2 (Krox-20 (Drosophila) homolog)	0.4	0.5	0.4	0.4	0.5	1.0	0.8	4
197	997377.1	ribonuclease, RNase A family, 3 (eosinophil cationic protein)	0.8	0.8	0.8	0.5	1.0	0.5	0.2	3
198	42869.3	cathepsin G	0.5	0.5	0.5	0.5	1.0	0.5	0.1	3
199	248306.1	carbonic anhydrase II	0.5	0.5	0.5	0.5	1.0	0.8	0.1	3
200	247220.15	thymidylate synthetase	0.9	1.0	1.0	1.0	0.2	0.2	0.2	5
201	26662.3	centromere protein F (350/400kD, mitotin)	0.8	1.0	0.9	0.8	0.3	0.3	0.2	5
202	977509.3	v-myb avian myeloblastosis viral oncogene homolog-like 2	0.8	1.0	0.9	0.7	0.3	0.2	0.2	5
203	221961.2	myeloid cell nuclear differentiation antigen	0.8	0.9	1.0	0.7	0.8	0.8	0.1	5
204	246824.1	ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin)	0.9	1.0	0.9	0.8	1.0	0.2	0.2	5
205	407557.2	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	0.8	1.0	0.9	0.7	0.9	0.4	0.2	5
206	372981.2	Homo sapiens ZW10 interactor Zwint mRNA, complete cds	0.9	0.9	0.9	1.0	0.7	0.3	0.2	5
207	201409.6	IgG fragment of IgG, high affinity Ia, receptor for (CD64)	0.8	1.0	0.9	1.0	0.3	0.5	0.2	5
208	331025.1	Homo sapiens mitotic centromere-associated kinesin mRNA, complete cds	0.9	1.0	0.9	0.8	0.8	0.4	0.2	5
209	247515.1	elastase 2, neutrophil	0.9	0.9	1.0	0.9	1.0	1.0	0.3	5
210	199471.2	MAD2 (mitotic arrest deficient, yeast, homolog)-like 1	1.0	1.0	1.0	0.7	0.9	0.3	0.3	5
211	291675.3	high-mobility group (nonhistone chromosomal) protein 2	0.8	0.8	0.8	1.0	0.8	0.5	0.2	5
212	343899.2	hyaluronan-mediated motility receptor (RHAMM)	0.9	0.9	1.0	0.8	0.8	0.9	0.2	5
213	335775.2	lamin B1	0.9	1.0	1.0	1.0	0.5	0.3	0.2	5
214	232714.5	ESTs	0.9	1.0	1.0	0.6	0.7	0.6	0.3	5
215	305039.4	ESTs	0.9	1.0	0.9	0.7	0.6	0.6	0.4	5
216	233603.2	ESTs	0.9	0.8	0.8	1.0	0.7	0.7	0.4	5
217	330930.1	ESTs	0.9	1.0	0.9	0.7	0.9	0.3	0.4	5
218	247289.1	Human clone 23815 mRNA sequence	0.9	1.0	0.9	0.5	0.7	0.5	0.3	5
219	331033.1	KIAA0008 gene product	0.9	0.9	1.0	0.5	0.8	0.4	0.3	5
220	1098766.1	ESTs	0.5	0.5	0.5	0.5	0.8	1.0	0.3	5
221	245632.3	ESTs	0.9	0.8	0.9	1.0	0.9	0.7	0.5	5
222	333461.2	Human mRNA for KIAA0074 gene, partial cds	0.9	1.0	1.0	0.7	0.8	0.3	0.3	5
223	347876.6	minichromosome maintenance deficient (S. cerevisiae) 4	1.0	0.9	0.8	0.8	0.7	0.5	0.5	5
224	413842.1	Human ECRP gene for eosinophil cationic related protein	0.8	0.8	0.9	1.0	0.8	0.7	0.3	5

TABLE 1

SEQ ID NO	Incye ID	Gene Annotation	0.9	0.5h	2.5h	4h	8h	P1	P2	Pd	Cluster
225	235867.2	polo (Drosophila)-like kinase	1.0	1.0	0.9	0.8	0.8	0.8	0.5	0.4	5
226	428665	ribonucleotide reductase M1 polypeptide	0.8	1.0	1.0	0.9	0.9	0.9	0.3	0.4	5
227	2234.3	Homo sapiens histone H2A.FZ variant (H2AV) mRNA, complete cds	0.8	1.0	1.0	0.9	0.9	0.9	0.3	0.3	5
228	1000139.13	insulin-like growth factor binding protein 7	0.9	0.9	0.9	0.9	0.8	1.0	0.5	0.5	5
229	998534.1	growth factor independent 1	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.5	5
230	372377.6	phosphorylase, glycogen; liver (Hers disease, glycogen storage disease type VI)	0.9	1.0	1.0	0.8	0.9	0.9	0.4	0.4	5
231	1101412.4	trophinin-assisting protein (tastin)	0.9	1.0	0.9	0.9	0.8	0.5	0.4	0.4	5
232	261567.5	CDC28 protein kinase 2	0.8	1.0	0.9	1.0	0.9	0.9	0.3	0.3	5
233	232713.2	uracil-DNA glycosylase	1.0	0.9	1.0	0.8	0.9	0.9	0.4	0.5	5
234	214335.13	Homo sapiens E2F-related transcription factor (DP-1) mRNA, complete cds	0.9	1.0	1.0	0.8	0.8	0.8	0.4	0.5	5
235	331022.33	dihydropyrimidine dehydrogenase	1.0	1.0	1.0	0.8	0.8	0.8	0.4	0.5	5
236	3322259.3	retinoblastoma-like 1 (p107)	1.0	1.0	1.0	0.9	0.9	0.9	0.4	0.4	5
237	253570.8	forkhead (Drosophila)-like 16	0.9	0.9	1.0	0.9	0.8	0.8	0.4	0.8	5
238	995529.5	cell division cycle 2, G1 to S and G2 to M	0.8	1.0	1.0	0.9	0.9	0.9	0.5	0.4	5
239	474435.16	Human MAC30 mRNA, 3' end	0.9	1.0	0.9	0.8	0.8	0.8	0.4	0.3	5
240	994861.1	Human chondroitin sulfate proteoglycan core protein mRNA, 3' end	1.0	0.9	1.0	0.9	0.9	0.8	0.4	0.9	5
241	g545708	natural killer cell group 7 sequence	0.8	0.9	1.0	0.9	0.9	0.9	0.3	0.3	5
242	347965.2	CD39 antigen	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.4	5
243	202361.1	small nuclear ribonucleoprotein polypeptide A	0.8	1.0	0.9	0.8	0.9	0.9	0.6	0.4	5
244	369950.12	DNA-damage-inducible transcript 1	0.8	0.8	0.8	0.9	1.0	0.5	0.4	0.4	5
245	331403.8	minichromosome maintenance deficient (S. cerevisiae) 5 (cell division cycle 46)	0.8	0.8	0.8	0.8	1.0	0.8	0.4	0.4	5
246	233889.3	CDC28 protein kinase 1	1.0	1.0	1.0	0.8	0.9	0.5	0.4	0.4	5
247	21148.4	nucleobindin 2	0.8	0.8	0.8	1.0	1.0	0.9	0.2	0.2	5
248	976749.1	replication factor C (activator 1) 4 (37kD)	1.0	0.8	1.0	0.9	0.8	0.8	0.4	0.3	5
249	252719.12	Human beta 3-endonexin mRNA, long form and short form, complete cds	1.0	1.0	1.0	0.8	0.9	0.8	0.4	0.3	5
250	g6063478	G/T mismatch-binding protein	1.0	1.0	1.0	0.8	0.8	0.8	0.5	0.9	5
251	347314.3	serine/threonine kinase 15	0.9	1.0	0.8	0.9	0.9	0.9	0.3	0.3	5
252	g3213196	serine/threonine kinase 15	0.9	1.0	0.8	0.9	0.9	0.9	0.3	0.3	5
253	245184.3	transforming growth factor, beta-induced, 68kD	0.8	1.0	0.9	0.9	0.9	0.5	0.3	0.4	5
254	243574.11	cysteine-rich protein 1 (intestinal)	1.0	1.0	0.9	0.9	0.9	0.9	0.4	0.4	5
255	474826.6	nidogen (enactin)	0.8	1.0	0.9	1.0	1.0	0.9	0.3	0.2	5
256	997347.6	feline sarcoma viral (v-fes)/Fujinami avian sarcoma (PRCII) viral (v-fps) oncogene homolog	0.9	0.9	1.0	0.8	0.9	0.9	0.4	0.4	5
257	222049.1	H.sapiens mRNA for glutamine cyclotransferase	0.9	0.9	1.0	0.8	0.9	0.9	0.4	0.4	5

TABLE 1

SEQ ID NO	Incye ID	Gene Annotation	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	Cluster
258	902659.8	small nuclear ribonucleoprotein polypeptide G	0.9	0.9	0.8	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
259	2508261	interferon, gamma-inducible protein 16	1.0	1.0	0.9	0.8	1.0	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
260	232945.12	RAD54 (S.cerevisiae)-like	1.0	1.0	1.0	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
261	445101.8	proliferating cell nuclear antigen	1.0	0.9	1.0	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
262	255750.1	metallothionein 3 (growth inhibitory factor (neurotrophic))	0.9	0.8	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
263	988231.7	interferon-induced protein 17	0.8	1.0	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
264	444902.6	interferon-inducible	0.9	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
265	407546.8	calreticulin	0.9	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
266	346511.4	2'-5' oligoadenylate synthetase 2	0.9	1.0	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
267	346511.5	2'-5' oligoadenylate synthetase 2	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
268	1098141.1	breast cancer 1, early onset	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
269	238089.2	exonuclease 1	0.9	1.0	1.0	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
270	1100105.3	CD74 antigen	0.9	0.9	1.0	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
271	474729.2	calponin 2	0.9	1.0	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
272	363000.3	complement component 2	0.9	1.0	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	5
273	395096.3	minichromosome maintenance deficient (S. cerevisiae) 2 (mitotin)	0.9	1.0	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	6
274	374086.1	high-mobility group (nonhistone chromosomal) protein 1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	6
275	444495.4	small nuclear ribonucleoprotein polypeptide F	0.9	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	6
276	474876.2	Human mRNA for Sm protein F	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	7

TABLE 2

SEQ ID NO	Incye ID	CloneID	Start	Stop
1	440295.1	3034487	2203	3330
2	g34387	79576	17	1395
3	247178.2	567292	3432	4661
4	567938	567938	669	1472
5	351122.2	682741	682	1151
6	481379.9	1219315	3730	4136
7	215391.7	1269046	861	1902
8	243812.1	1321761	698	1663
9	1085755.1	1376121	650	1291
10	347809.3	1516886	3615	4644
11	331734.4	1595081	334	876
12	116840.38	1606119	847	1284
13	903565.11	1672574	4016	4325
14	903565.8	1672574	1242	1787
15	474310.13	1672744	1281	3844
16	413006.13	1732479	1143	1904
17	76460.2	1749883	350	831
18	474374.4	2679117	1030	2542
19	427792.8	2806166	611	1994
20	364482.3	3178719	1331	1922
21	978487.1	3178719	54	526
22	410626.2	3602501	1153	1796
23	234480.6	1238577	298	1045
24	253542.2	1734561	1606	2355
25	234202.24	1995380	50	901
26	253946.4	2172334	1098	2397
27	348801.1	2203834	15	663
28	980611.1	2213735	1431	2249
29	283885.8	2415989	918	1576
30	348196.33	2852561	1095	1848
31	256009.4	3068454	4496	4936
32	481594.12	3211396	649	1098
33	978788.1	3211396	562	678
34	335171.1	3229778	5149	5670
35	998433.2	63038	2	1032
36	221928.9	674714	1199	1386
37	331291.3	1579487	3345	3833
38	233331.3	1712888	2259	2939
39	474682.2	1969044	1006	1509
40	3161.7	1484773	270	603
41	984248.1	1516047	968	1760
42	196590.2	1607510	723	1118
43	255109.1	1607510	304	429
44	238622.1	1669780	27	957
45	334385.3	1890138	6050	6479
46	998997.1	1640161	1104	1496
47	200578.1	1397926	1138	2288
48	208134.1	2293931	2596	2746
49	153659.2	519653	1355	1884
50	241930.15	1512213	1017	1540
51	413466.5	1985104	760	1861
52	3249239	3249239	740	2957
53	337518.18	3506985	151	500
54	g3116213	2170638	194	1738
55	g5912216	2170638	466	2010
56	992917.1	27775	386	910

TABLE 2

SEQ ID NO	Incye ID	CloneID	Start	Stop
57	411424.12	126888	88	599
58	995600.17	237730	799	1151
59	441292.7	1624024	1208	2738
60	42176.5	1650238	89	2297
61	234537.3	1718651	3061	3639
62	470468.21	1806435	800	1521
63	240120.3	1862257	472	2312
64	28779.3	2220923	8	785
65	238627.2	2555673	145	855
66	254107.1	2394637	3297	4186
67	330908.2	2987878	2395	3815
68	g687589	1403041	170	1592
69	197975.11	1560143	2995	4347
70	227928.2	1719657	1717	2098
71	258785.7	1738168	3345	3738
72	977757.3	1830303	4598	7208
73	232773.2	1958631	2317	2963
74	g6634024	2378601	697	1808
75	g4589571	2902846	3036	3495
76	334370.3	3335055	1195	2483
77	980461.1	4003857	293	702
78	422969.4	1369536	3174	4219
79	244150.4	1429306	1803	5218
80	410257.11	1965978	2763	3546
81	28253.3	75549	425	661
82	g31670	155892	1884	2388
83	977552.1	155904	993	1501
84	977552.2	155904	281	789
85	347829.6	185448	334	2046
86	251776.11	418731	2766	3414
87	343674.9	450618	919	1425
88	479136.1	885297	2474	3905
89	1078147.1	1000508	1289	2523
90	474275.1	1297562	4431	5815
91	g403532	1320658	1213	2771
92	242114.16	1361963	2792	4530
93	445186.7	1375107	243	1602
94	474496.2	1401002	1855	2387
95	257114.7	1424573	867	1703
96	984005.1	1446475	68	809
97	977667.1	1447909	1146	1705
98	996862.4	1449337	50	660
99	364940.19	1479437	2522	5308
100	1041140.4	2220025	448	2428
101	408246.2	1595756	890	1796
102	902740.4	1670773	373	845
103	475486.9	1694039	483	1534
104	233778.9	1695477	970	1500
105	350392.3	1719058	2417	4573
106	458045.4	1720114	2424	4196
107	471362.17	1720149	286	1089
108	336716.3	1749727	1431	2412
109	995211.5	1782172	1192	3936
110	238824.2	1841989	1082	2360
111	474592.3	1846463	2393	3281

TABLE 2

SEQ ID NO	Incye ID	CloneID	Start	Stop
112	431338.2	1890243	876	2359
113	412631.5	1907232	12440	12947
114	350480.6	1975575	1928	2274
115	350521.15	2078364	1075	1890
116	445076.9	2449986	356	1578
117	995028.4	2483605	132	606
118	245008.4	2900572	2225	3836
119	350895.1	2952864	440	1439
120	434265.5	3421442	740	1203
121	427813.14	3553729	6501	7091
122	14704.3	3742428	1000	2154
123	344240.2	3943651	2050	2530
124	239694.6	4144156	2287	3032
125	255772.2	433573	1321	2758
126	232066.3	514726	2248	2778
127	246504.1	570512	750	2361
128	986123.22	1522716	1264	1904
129	898945.14	1525829	830	1628
130	236208.16	1682642	2775	3010
131	246531.2	1692164	1374	1602
132	238586.2	1699587	427	910
133	245532.7	1804548	1196	1992
134	200972.2	1850135	1308	2138
135	348061.1	1867652	687	2825
136	233711.7	1902929	1146	2151
137	256043.19	1910469	1137	1625
138	445012.6	1911016	6908	7424
139	g463906	1959969	29	523
140	475621.1	1967160	1459	1932
141	216063.17	2174920	381	1030
142	1099498.9	2369312	463	601
143	1099076.1	2537805	299	664
144	902119.3	2594308	1	836
145	g2982500	2720693	3244	4316
146	1097580.4	2733928	126	1118
147	391851.1	2868138	490	851
148	13105.9	2921194	462	1362
149	356248.4	2967860	1184	5905
150	331045.1	3001809	2899	4165
151	482480.3	3003077	2356	2814
152	245099.8	3119252	1681	2281
153	245481.2	3606947	243	1980
154	225021.4	146667	1489	2773
155	451767.28	418041	66	864
156	902142.11	518094	1155	1925
157	291095.5	719318	4551	5099
158	332919.4	924319	781	1262
159	387130.26	1439677	133	3079
160	410580.13	1445767	645	2172
161	251715.1	1705208	1702	2383
162	1799017F6	1799017	1	459
163	348891.1	1877829	777	1288
164	903956.15	1879023	1328	3314
165	235184.1	1988432	660	979
166	330948.3	2054252	3800	4487

TABLE 2

SEQ ID NO	Incye ID	CloneID	Start	Stop
167	994057.1	2055534	4841	5856
168	197301.4	2591814	937	3287
169	476016.17	3142624	419	1641
170	1098409.1	3603037	1338	2945
171	202023.6	160822	2991	4412
172	350423.5	1624459	56	1711
173	1100023.1	2895245	512	2019
174	414196.8	1222317	1	476
175	331106.6	1518328	1675	2011
176	g180670	1558081	1074	2596
177	236574.12	1559730	2628	3663
178	1000033.6	1600726	1229	4571
179	37567.22	1672930	185	829
180	995610.1	1673876	1688	2958
181	1702374	1702374	1038	3139
182	427883.47	1881243	-14	435
183	93687.6	1907952	1259	1638
184	414100.4	1931275	323	1871
185	235148.4	1987127	199	873
186	430039.3	1988710	932	1388
187	348110.2	2158373	2064	2281
188	1098815.7	2831248	393	924
189	474491.18	3747901	190	1319
190	474491.19	3747901	267	1396
191	419031.5	1988019	1627	2079
192	399658.1	3967402	559	1697
193	474913.3	3138128	3685	4570
194	199898.3	1217764	271	932
195	253550.14	1447903	441	2458
196	331597.2	1975944	3277	4284
197	997377.1	1526665	256	788
198	42869.3	2016960	162	835
199	248306.1	2474163	198	1710
200	247220.15	39817	846	1550
201	26662.3	485111	7807	10242
202	977509.3	494905	166	2605
203	221961.2	633460	945	1672
204	246824.1	1488852	319	789
205	407557.2	1501556	1391	2055
206	372981.2	1576329	551	906
207	201409.6	1622987	791	1342
208	331025.1	2242674	1364	2791
209	247515.1	2399253	606	1044
210	199471.2	2414624	125	1464
211	2916753	2916753	114	1109
212	343899.2	3622417	97	897
213	335775.2	3771476	1324	2846
214	232714.5	277897	479	649
215	305039.4	522991	1009	1391
216	233603.2	1604056	1	190
217	330930.1	1740384	6110	6515
218	247289.1	1901271	2050	2558
219	331033.1	1970111	1079	2827
220	1098766.1	2113618	939	1345
221	245632.3	2396287	2506	2827

TABLE 2

SEQ ID NO	Incye ID	CloneID	Start	Stop
222	333461.2	4003342	1541	2067
223	347876.6	103669	290	2971
224	413842.1	173591	1	366
225	235867.2	343653	1519	2159
226	199636.2	428665	800	2432
227	2234.3	627654	124	682
228	1000139.13	690313	557	1118
229	998534.1	885129	1823	2762
230	372377.6	1315115	2445	2827
231	1101412.4	1340504	440	938
232	261567.5	1384823	32	576
233	232713.2	1405652	436	2078
234	214335.13	1439126	904	2629
235	331022.33	1485479	3584	4373
236	332259.3	1513664	2446	3297
237	253570.8	1516301	467	1240
238	995529.5	1525795	337	1781
239	474435.16	1610523	1323	2032
240	994861.1	1623237	9447	10862
241	g545708	1668794	39	798
242	347965.2	1672749	734	1895
243	202361.1	1700047	1121	1558
244	369950.12	1702350	840	1323
245	331403.8	1746529	2145	2537
246	233889.3	1758241	687	941
247	21148.4	1760517	462	1583
248	976749.1	1773638	1907	2394
249	252719.12	1809385	61	1008
250	g6063478	1926006	3426	4214
251	347314.3	2007691	1146	2115
252	g3213196	2007691	1240	2209
253	245184.3	2056395	946	2668
254	243574.11	2121863	581	836
255	474826.6	2175008	4211	4706
256	997347.6	2195430	2222	2834
257	222049.1	2365295	62	588
258	902659.8	2449837	403	806
259	2508261	2508261	541	2671
260	232945.12	2645840	968	2501
261	445101.8	2781405	911	1316
262	255750.1	2901811	129	471
263	988231.7	2902903	435	1058
264	444902.6	2949427	92	664
265	407546.8	2970280	564	1888
266	346511.4	3214930	17	588
267	346511.5	3214930	81	652
268	1098141.1	3563535	4062	4478
269	238089.2	4385292	1184	3103
270	1100105.3	1001730	91	1412
271	474729.2	1443061	319	2116
272	363000.3	1510424	965	2927
273	395096.3	1723834	2914	3253
274	374086.1	1813133	89	862
275	444495.4	2104530	743	1309
276	474876.2	2104530	148	472

TABLE 3

SEQ ID NO	Incite ID	Gene Annotation	0h	0.5h	2h	4h	1d	2d	4d	max up	max down	max diff
1	3034487	solute carrier family 4, sodium bicarbonate cotransporter, member 6	1.00	0.96	1.15	2.02	1.20	1.45	3.51	3.51	0.96	3.51
2	g34387	annexin I (lipocortin I)	1.00	1.23	1.33	1.23	2.83	2.54	1.86	2.83	1.00	2.83
3	247178.2	sperm surface protein	1.00	0.99	1.11	1.24	2.00	1.93	2.00	2.00	0.99	2.00
4	567938	integrin, alpha X (antigen CD11C (p150), alpha polypeptide)	1.00	1.03	1.05	0.95	2.11	1.53	2.45	2.45	0.95	2.45
5	351122.2	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	1.00	1.05	1.07	0.87	3.20	2.22	2.61	3.20	0.87	3.20
6	481379.9	paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein)	1.00	1.08	1.01	1.03	2.06	1.99	1.57	2.06	1.00	2.06
7	215391.7	phosphogluconate dehydrogenase	1.00	1.47	1.24	1.78	2.59	2.49	2.54	2.59	1.00	2.59
8	243812.1	protein kinase mitogen- activated 13	1.00	1.17	1.19	0.96	2.27	1.91	2.68	2.68	0.96	2.68
9	1085755.1	folate receptor 1 (adult)	1.00	0.80	1.00	1.07	2.28	1.89	2.16	2.28	0.80	2.28
10	347809.3	solute carrier family 6 (neurotransmitter transporter, taurine), member 6	1.00	1.06	1.33	1.21	2.65	2.13	3.06	3.06	1.00	3.06
11	331734.4	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)	1.00	1.20	1.17	1.30	2.08	1.50	1.72	2.08	1.00	2.08
12	116840.38	interferon regulatory factor 3	1.00	1.15	1.02	0.94	2.31	2.37	1.85	2.37	0.94	2.37
13	903565.11	proprotein convertase subtilisin/kexin type 4	1.00	1.11	1.18	1.13	2.12	1.68	2.50	2.50	1.00	2.50
14	903565.8	Human mRNA for PACE4E-1, complete cds.	1.00	1.11	1.18	1.13	2.12	1.68	2.50	2.50	1.00	2.50
15	474310.13	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)	1.00	1.20	1.09	0.78	2.17	3.20	3.29	3.29	0.78	3.29
16	413006.13	differentiated Embryo Chondrocyte expressed gene 1	1.00	1.17	1.03	1.07	2.16	2.25	1.59	2.25	1.00	2.25
17	76460.2	pyridoxal (pyridoxine, vitamin B6) kinase	1.00	1.23	1.16	1.54	2.51	1.61	1.90	2.51	1.00	2.51
18	474374.4	pim-1 oncogene	1.00	1.16	1.09	1.13	3.56	2.75	3.02	3.56	1.00	3.56
19	427792.8	cathepsin B	1.00	1.25	1.01	1.51	2.13	1.78	1.37	2.13	1.00	2.13
20	364482.3	carnitine palmitoyltransferase I, liver	1.00	0.81	0.98	1.25	2.08	2.06	1.61	2.08	0.81	2.08
21	978487.1	carnitine palmitoyltransferase I, liver	1.00	0.81	0.98	1.25	2.08	2.06	1.61	2.08	0.81	2.08
22	410626.2	Human retinoid X receptor-gamma mRNA, complete cds	1.00	1.08	1.19	1.66	2.48	2.51	3.09	3.09	1.00	3.09
23	234480.6	glutaredoxin (thioltransferase)	1.00	0.91	0.91	0.78	3.65	3.13	1.08	3.65	0.78	3.65
24	253542.2	dual specificity phosphatase 5	1.00	0.92	0.84	1.01	3.83	3.38	2.23	3.83	0.84	3.83
25	234202.24	microsomal glutathione S-transferase 1	1.00	0.93	1.02	1.28	3.07	2.33	1.68	3.07	0.93	3.07
26	253946.4	interleukin 6 signal transducer (gp130, oncostatin M receptor)	1.00	1.01	1.29	1.07	2.04	0.94	2.24	2.24	0.94	2.24
27	348801.1	pro-platelet basic protein	1.00	1.01	1.03	1.00	3.77	3.69	1.81	3.77	1.00	3.77
28	980611.1	matrilin 1, cartilage matrix protein	1.00	0.94	0.92	0.90	2.86	0.73	1.25	2.86	0.73	2.86
29	283885.8	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4	1.00	1.13	1.08	0.88	2.64	1.06	1.75	2.64	0.88	2.64
30	348196.33	antigen identified by monoclonal antibodies 4F2, TRA1.10, TROP4, and T43	1.00	1.14	0.98	1.35	2.96	2.07	1.64	2.96	0.98	2.96
31	256009.4	AHNK nucleoprotein (desmoyokin)	1.00	1.17	1.33	0.98	2.32	2.35	0.98	2.35	0.98	2.35
32	481594.12	Human RACH1 (RACH1) mRNA, complete cds	1.00	1.24	1.27	0.72	2.59	0.79	0.79	2.59	0.72	2.59

TABLE 3

SEQ ID NO	Incyte ID	Gene Annotation	0h	0.5h	2.5h	8h	1d	2d	4d	max up	max down	max diff
180	995610.1	v-myc avian myelocytomatosis viral oncogene homolog	1.00	1.17	1.16	0.91	0.46	0.81	0.86	1.17	0.46	2.19
181	1702374	v-myc avian myelocytomatosis viral oncogene homolog 1, lung carcinoma derived	1.00	1.11	1.08	0.81	0.49	0.77	0.58	1.11	0.49	2.03
182	427883.47	Homo sapiens LST1 mRNA, cLST1/E splice variant, complete cds	1.00	1.15	0.98	1.00	0.40	0.76	0.45	1.15	0.40	2.49
183	93687.6	uncoupling protein 2 (mitochondrial, proton carrier)	1.00	1.09	1.12	1.05	0.50	0.51	0.46	1.12	0.46	2.18
184	414100.4	leukocyte-associated Ig-like receptor 1	1.00	1.09	1.10	1.26	0.40	0.49	0.51	1.26	0.40	2.47
185	235148.4	arachidonate 5-lipoxygenase-activating protein	1.00	0.96	0.96	0.98	0.30	0.48	0.86	1.00	0.30	3.39
186	430039.3	CD14 antigen	1.00	1.17	1.10	0.99	0.48	0.63	1.10	1.17	0.48	2.07
187	2158373F6	platelet-derived growth factor alpha polypeptide	1.00	1.03	0.97	1.05	0.49	1.00	1.46	1.46	0.49	2.04
188	1098815.7	Not mapped	1.00	0.93	0.96	1.13	0.50	0.78	0.53	1.13	0.50	2.00
189	474491.18	Human apurinic/apyrimidinic endonuclease mRNA, complete cds.	1.00	1.18	1.13	1.28	0.48	0.83	0.76	1.28	0.48	2.09
190	474491.19	ref-1	1.00	1.18	1.13	1.28	0.48	0.83	0.76	1.28	0.48	2.09
191	419031.5	leukotriene A4 hydrolase	1.00	1.19	0.95	1.40	0.35	0.63	0.64	1.40	0.35	2.84
192	399658.1	Not mapped	1.00	1.11	1.00	0.77	0.46	0.53	1.47	1.47	0.46	2.18
193	474913.3	ESTs	1.00	1.01	0.98	0.77	0.35	1.00	0.81	1.01	0.35	2.84
194	199898.3	Human GOS2 protein gene, complete cds	1.00	1.07	1.10	0.87	0.21	0.41	0.56	1.10	0.21	4.84
195	253550.14	insulin-like growth factor binding protein 3	1.00	1.06	1.06	1.37	0.28	0.90	1.18	1.37	0.28	3.62
196	331597.2	cytochrome b-245, beta polypeptide (chronic granulomatous disease)	1.00	1.14	1.08	1.02	0.25	0.28	0.16	1.14	0.16	6.32

SEQ ID NO	Incyte ID	Gene Annotation	0	0.5	1	1.5	2	2.5	3	4	max up	max down	max diff
47	200578.1	ESTs	1.00	1.18	1.25	1.75	5.54	5.02	3.11	5.54	1.00	5.54	5.54
48	208134.1	ESTs	1.00	1.17	1.09	0.81	3.53	2.33	4.59	4.59	0.81	4.59	4.59
49	153659.2	interleukin 1 receptor antagonist	1.00	1.33	1.29	1.26	2.00	3.16	4.88	4.88	1.00	4.88	4.88
50	241930.15	liver X receptor, alpha	1.00	1.13	1.28	2.29	2.15	2.27	4.34	4.34	1.00	4.34	4.34
51	413466.5	adipose differentiation-related protein; adipophilin	1.00	1.62	2.66	4.30	7.11	7.12	14.12	14.12	1.00	14.12	14.12
52	3249239	colony stimulating factor 1 (macrophage)	1.00	1.20	1.18	1.24	2.42	2.41	4.73	4.73	1.00	4.73	4.73
53	337518.18	CD36 antigen (collagen type I receptor, thrombospondin receptor)	1.00	1.19	1.39	2.00	3.49	2.68	4.32	4.32	1.00	4.32	4.32
54	g3116213	SH3 binding protein	1.00	1.25	1.10	1.50	4.20	3.19	2.44	4.20	1.00	4.20	4.20
55	g5912216	SH3 binding protein	1.00	1.25	1.10	1.50	4.20	3.19	2.44	4.20	1.00	4.20	4.20
56	992917.1	ferritin, heavy polypeptide 1	1.00	1.02	1.04	1.18	1.70	1.96	4.90	4.90	1.00	4.90	4.90
57	411424.12	LIM and senescent cell antigen-like domains 1	1.00	1.03	1.16	1.65	1.25	1.61	4.11	4.11	1.00	4.11	4.11
58	995600.17	Homo sapiens clone 24649 mRNA sequence	1.00	1.00	0.99	1.07	1.04	1.03	5.85	5.85	0.99	5.85	5.85
59	441292.7	epithelial membrane protein 1	1.00	1.18	1.05	1.30	1.50	3.13	6.00	6.00	1.00	6.00	6.00
60	42176.5	Down syndrome candidate region 1	1.00	1.34	1.53	1.85	1.17	2.49	6.83	6.83	1.00	6.83	6.83
61	234537.3	5' nucleotidase (CD73)	1.00	1.00	1.08	1.00	1.69	2.36	6.22	6.22	1.00	6.22	6.22
62	470468.21	uridine phosphorylase	1.00	1.30	1.03	1.18	1.93	2.46	5.37	5.37	1.00	5.37	5.37
63	240120.3	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor)	1.00	1.03	0.95	0.98	1.82	2.95	7.00	7.00	0.95	7.00	7.00
64	28779.3	small inducible cytokine subfamily A (Cys-Cys), member 20	1.00	0.97	1.00	1.26	0.56	2.02	8.18	8.18	0.56	8.18	8.18
65	238627.2	BCL2-related protein A1	1.00	1.12	0.97	1.25	0.42	1.69	3.85	3.85	0.42	3.85	3.85
66	254107.1	thrombomodulin	1.00	1.05	0.93	0.89	2.12	6.24	2.12	6.24	0.89	6.24	6.24
67	330908.2	leukemia inhibitory factor (cholinergic differentiation factor)	1.00	1.08	1.06	0.79	1.40	3.87	1.04	3.87	0.79	3.87	3.87
194	19898.3	Human GOS2 protein gene, complete cds	1.00	1.07	1.10	0.87	0.21	0.41	0.56	1.10	0.21	4.84	4.84
195	253550.14	insulin-like growth factor binding protein 3	1.00	1.06	1.06	1.37	0.28	0.90	1.18	1.37	0.28	3.62	3.62
196	331597.2	cytochrome b-245, beta polypeptide (chronic granulomatous disease)	1.00	1.14	1.08	1.02	0.25	0.28	0.16	1.14	0.16	6.32	6.32
197	997377.1	ribonuclease, RNase A family, 3 (eosinophil cationic protein)	1.00	0.99	0.99	0.75	1.25	0.77	0.28	1.25	0.28	3.55	3.55
198	42869.3	cathepsin G	1.00	1.14	1.04	0.80	1.60	0.84	0.20	1.60	0.20	4.98	4.98
199	248306.1	carbonic anhydrase II	1.00	0.92	1.03	0.92	1.46	1.19	0.13	1.46	0.13	7.58	7.58
200	247220.15	thymidylate synthetase	1.00	1.14	1.12	1.12	0.77	0.23	0.25	1.14	0.23	4.34	4.34
201	26662.3	centromere protein F (350/400kD, mitosis)	1.00	1.24									

TABLE 4

SEQ ID NO	Incye ID	Gene Annotation	40	45	50	55	60	65	70	75	80	85	90	95	100	max up	max down	max diff	down-regulated
205	407557.2	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	1.00	1.21	1.03	0.80	1.09	0.43	0.24	0.24	1.21	0.24	4.17						
206	372981.2	Homo sapiens ZW10 interactor Zwint mRNA, complete cds	1.00	1.10	1.07	1.17	0.62	0.30	0.29	0.29	1.17	0.29	3.48						
207	201409.6	Fc fragment of IgG, high affinity Ia, receptor for (CD64)	1.00	1.25	1.07	1.21	0.90	0.58	0.23	0.23	1.25	0.23	4.27						
208	331025.1	Homo sapiens mitotic centromere-associated kinesin mRNA, complete cds	1.00	1.10	1.04	0.91	0.90	0.48	0.26	0.26	1.10	0.26	3.89						
209	247515.1	elastase 2, neutrophil	1.00	0.96	1.11	0.95	1.11	1.08	0.29	0.29	1.11	0.29	3.48						
210	199471.2	MAD2 (mitotic arrest deficient, yeast, homolog)-like 1	1.00	1.05	1.02	0.69	0.99	0.28	0.31	0.31	1.05	0.28	3.60						
211	2916753	high-mobility group (nonhistone chromosomal) protein 2	1.00	1.05	0.99	1.25	0.94	0.36	0.19	0.19	1.25	0.19	5.37						
212	343899.2	hyaluronan-mediated motility receptor (RHAMM)	1.00	1.08	1.14	0.94	0.88	1.02	0.26	0.26	1.14	0.26	3.81						
213	335775.2	lamin B1	1.00	1.05	1.09	1.07	0.52	0.32	0.18	0.18	1.09	0.18	5.44						

CLAIMS

What is claimed is:

1. A composition comprising a plurality of polynucleotides that are differentially expressed in foam cell development and selected from SEQ ID NOs:1-276 or a complement thereof.
- 5 2. The composition of claim 1, wherein each of the polynucleotides is differentially expressed early in foam cell development and is selected from
 - (a) SEQ ID NOs:1-55;
 - (b) SEQ ID NOs:171-196; or
 - (c) a complement of (a) or (b).
- 10 3. The composition of claim 1, wherein each of the polynucleotides is differentially expressed greater than 3-fold and is selected from
 - (a) SEQ ID NOs:47-67;
 - (b) SEQ ID NOs:194-213; or
 - (c) a complement of (a) or (b).
- 15 4. The composition of claim 1, wherein the polynucleotides are immobilized on a substrate.
5. A high throughput method for detecting altered expression of one or more polynucleotides in a sample, the method comprising:
 - (a) hybridizing the composition of claim 2 with the sample, thereby forming one or more hybridization complexes;
 - 20 (b) detecting the hybridization complexes; and
 - (c) comparing the hybridization complexes with those of a standard, wherein each difference in the size and intensity of a hybridization complex indicates altered expression of a polynucleotide in the sample.
6. The method of claim 5, wherein the sample is from a subject with atherosclerosis and
25 comparison with a standard defines early, mid, and late stages of that disease.
7. A high throughput method of screening a library of molecules or compounds to identify a ligand which binds a polynucleotide, the method comprising:
 - (a) combining the composition of claim 1 with the library under conditions to allow specific binding; and
 - 30 (b) detecting specific binding between the polynucleotide and a molecule or compound, thereby identifying a ligand that specifically binds to the polynucleotide.
8. The method of claim 7 wherein the library is selected from DNA molecules, RNA molecules, peptide nucleic acids, mimetics, peptides, and proteins.
9. A method of obtaining an extended or full length gene from a library of nucleic acid
35 sequences, the method comprising:

- (a) arranging individual sequences on a substrate;
 - (a) hybridizing a polynucleotide selected from claim 1 with the sequences under conditions which allow specific binding;
 - (b) detecting hybridization between the polynucleotide and one or more sequences; and
 - 5 (c) isolating the sequences from the library, thereby obtaining extended or full length gene.
10. A substantially purified polynucleotide selected from SEQ ID NOs:35-48, 68-80, 192, 193, and 214-222.
11. An expression vector containing the polynucleotide of claim 10.
12. A host cell containing the expression vector of claim 11.
- 10 13. A method for producing a protein, the method comprising the steps of:
- (a) culturing the host cell of claim 12 under conditions for the expression of protein; and
 - (b) recovering the protein from the host cell culture.
14. A protein produced by the method of claim 13.
15. A high-throughput method for screening a library of molecules or compounds to identify at least one ligand which specifically binds a protein, the method comprising:
- (a) combining the protein or a portion thereof of claim 14 with the library under conditions to allow specific binding; and
 - (b) detecting specific binding between the protein and a molecule or compound, thereby identifying a ligand which specifically binds the protein.
- 20 16. The method of claim 15 wherein the library is selected from DNA molecules, RNA molecules, PNAs, mimetics, peptides, proteins, agonists, antagonists, antibodies or their fragments, immunoglobulins, inhibitors, drug compounds, and pharmaceutical agents.
17. A method of purifying a ligand from a sample, the method comprising:
- a) combining the protein of claim 15 with a sample under conditions to allow specific
 - 25 binding;
 - b) recovering the bound protein; and
 - c) separating the protein from the ligand, thereby obtaining purified ligand.
18. A pharmaceutical composition comprising the protein of claim 14 in conjunction with a pharmaceutical carrier.
- 30 19. A purified antibody that specifically binds to the protein of claim 14.

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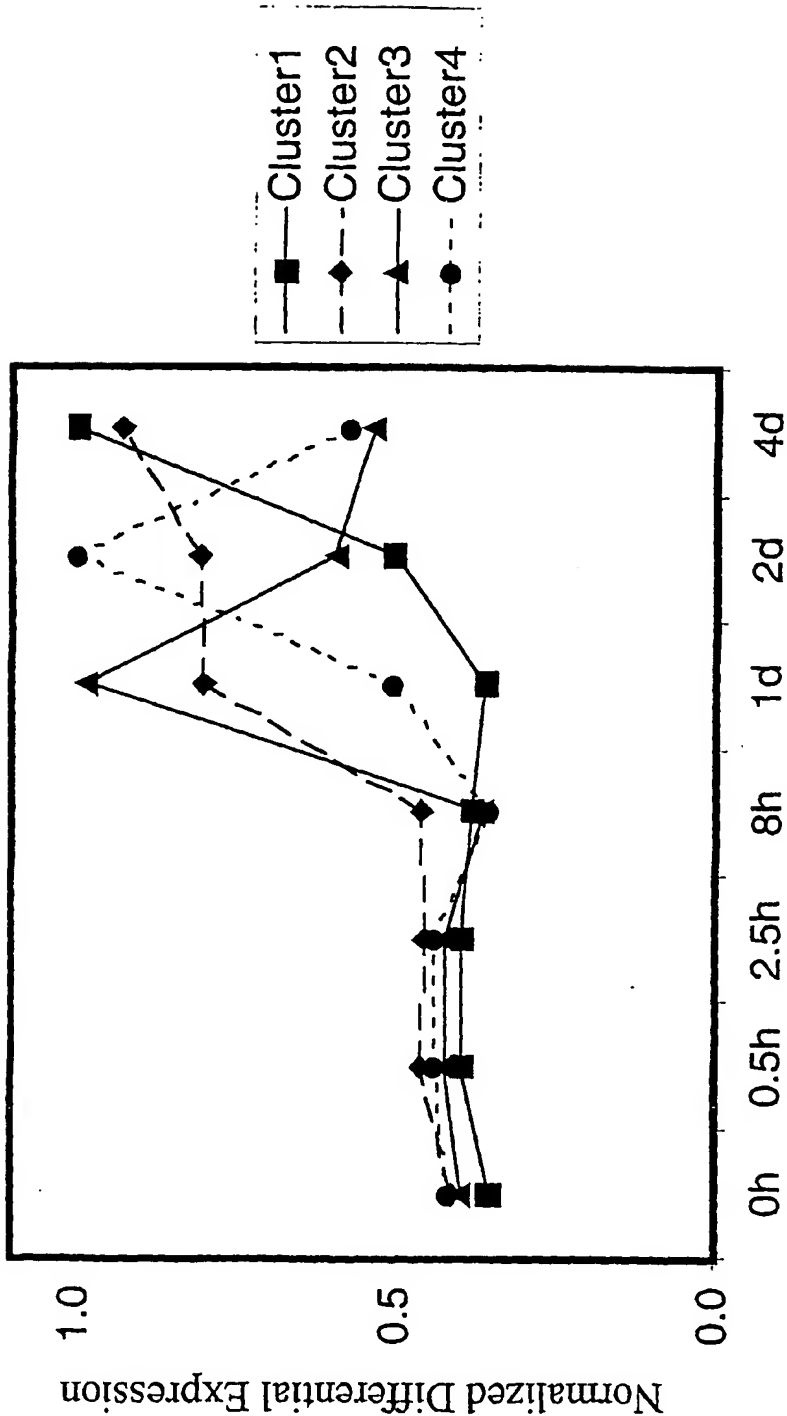


FIGURE 1A

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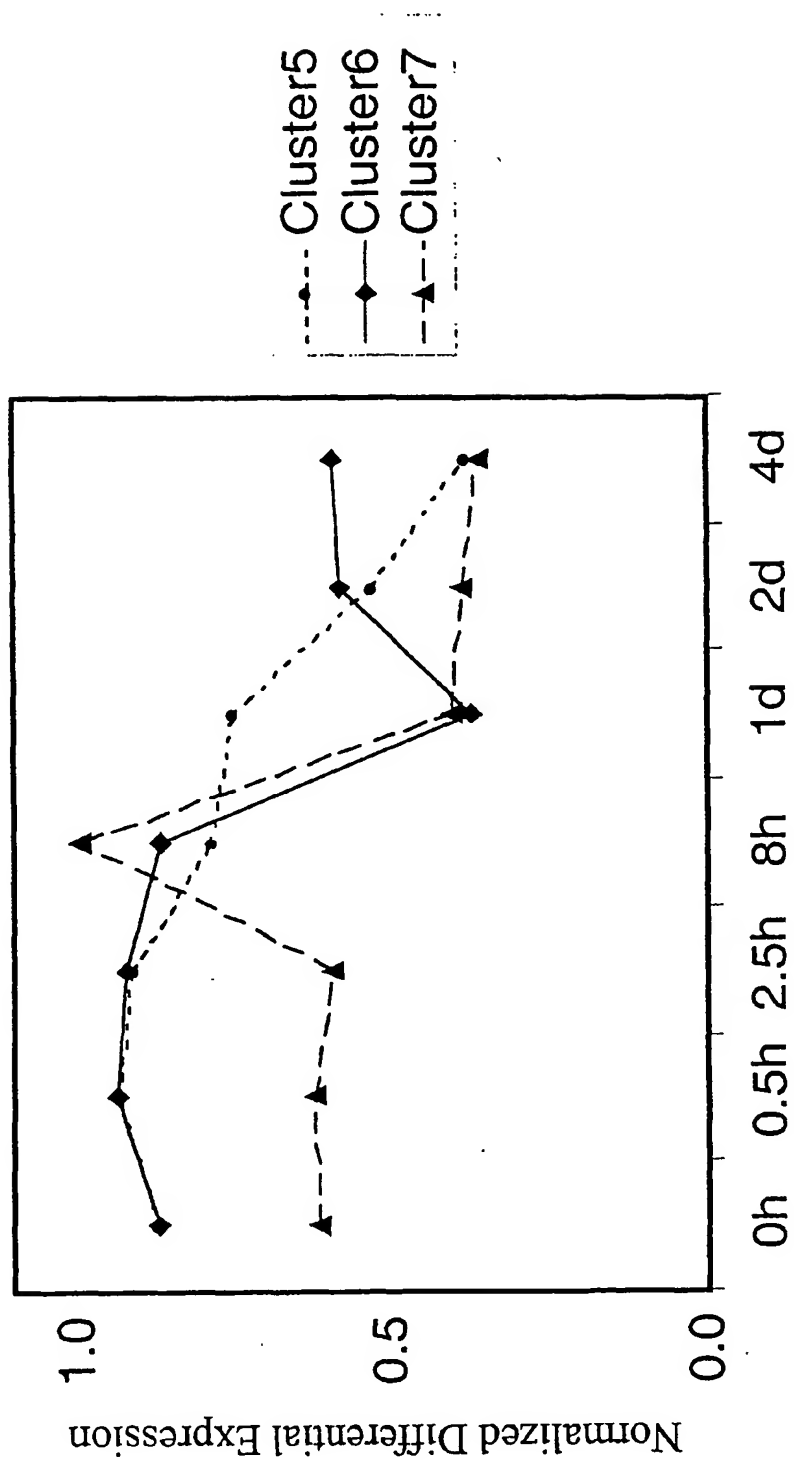


FIGURE 1B

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 SOMOGYI, Roland
 LAWN, Richard M.
 SEILHAMER, Jeffrey J.
 PORTER, Gordon J.
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<222> 2350, 2357
<223> a, t, c, g, or other

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<223> a, t, c, g, or other

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<223> a, t, c, g, or other

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<210> 39

<211> 2398

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474682.2

<400> 39

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<210> 40

<211> 616

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 003161.7

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<221> unsure

<222> 610

<223> a, t, c, g, or other

<400> 40

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<210> 41

<211> 1798

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 984248.1

<400> 41

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 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 196590.2

<220>
 <221> unsure
 <222> 550
 <223> a, t, c, g, or other

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 <211> 1195
 <212> DNA
 <213> Homo sapiens

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<220>
 <221> unsure
 <222> 97
 <223> a, t, c, g, or other

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<210> 44

<211> 947

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 238622.1

<400> 44

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<210> 45

<211> 6549

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 334385.3

<220>

<221> unsure

<222> 62, 2192

<223> a, t, c, g, or other

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<223> Incyte ID No: 998997.1

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<211> 1927

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<213> Homo sapiens

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<223> Incyte ID No: 337518.18

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<223> Incyte ID No: 330908.2

<400> 67

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<223> Incyte ID No: g687589

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<223> a, t, c, g, or other

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<213> Homo sapiens

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<223> Incyte ID No: 977552.1

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<213> Homo sapiens

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<222> 2143, 2186

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<400> 103

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<223> Incyte ID No: 233778.9

<400> 104

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<223> Incyte ID No: 350392.3

<400> 105

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<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 458045.4

<400> 106

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<223> a, t, c, g, or other

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<211> 1921

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<213> Homo sapiens

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<223> a, t, c, g, or other

<400> 116

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<213> Homo sapiens

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<211> 1678

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 350895.1

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<223> Incyte ID No: 434265.5

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<212> DNA

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 <223> a, t, c, g, or other

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<210> 155
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 <212> DNA
 <213> Homo sapiens

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<210> 157

<211> 5329

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 291095.5

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<223> a, t, c, g, or other

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 <213> Homo sapiens

<220>
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gacaagagag gcaccaagga ggatccaaga gctgactatg cctgcatttg ctgagaacaa 360

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<210> 183
 <211> 1643
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 093687.6

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 <211> 2517
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 414100.4

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<210> 185

<211> 897

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 235148.4

<400> 185

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<210> 186

<211> 1560

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 430039.3

<220>

<221> unsure

<222> 334

<223> a, t, c, g, or other

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<400> 186
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<210> 187
<211> 285
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2158373F6

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<220>
<221> unsure
<222> 249, 255, 257, 281
<223> a, t, c, g, or other

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atactgaga gcctgctatg ttcttttttt gttgatccaa aattaaaaaa aaaaatacca 240
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<210> 188
<211> 1202
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 1098815.7

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<220>
<221> unsure
<222> 1170
<223> a, t, c, g, or other

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 <222> 1408
 <223> a, t, c, g, or other


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<213> Homo sapiens

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<223> a, t, c, g, or other

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<220>

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<223> a, t, c, g, or other

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<212> DNA

<213> Homo sapiens

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<221> unsure

<222> 4633

<223> a, t, c, g, or other

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<213> Homo sapiens

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<211> 2496

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 253550.14

<400> 195

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<223> Incyte ID No: 331597.2

<220>
<221> unsure
<222> 4073, 4082
<223> a, t, c, g, or other

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 <212> DNA
 <213> Homo sapiens

<220>
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<223> Incyte ID No: 997377.1

<400> 197

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<211> 902

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 042869.3

<220>

<221> unsure

<222> 887

<223> a, t, c, g, or other

<400> 198

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<212> DNA

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<221> unsure

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<213> Homo sapiens

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<223> Incyte ID No: 977509.3

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<223> Incyte ID No: 221961.2

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 <222> 2114
 <223> a, t, c, g, or other

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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 372981.2

<400> 206


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<223> Incyte ID No: 201409.6

<400> 207

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<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 331025.1

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<213> Homo sapiens

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<223> Incyte ID No: 247515.1

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<223> Incyte ID No: 2916753

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<222> 715

<223> a, t, c, g, or other

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<211> 3045

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<213> Homo sapiens

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<223> a, t, c, g, or other

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<212> DNA

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<223> a, t, c, g, or other

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<223> Incyte ID No: 233889.3

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<213> Homo sapiens

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<213> Homo sapiens

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<223> a, t, c, g, or other

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<223> Incyte ID No: 997347.6

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<223> Incyte ID No: 902659.8

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<223> a, t, c, g, or other

<400> 258

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<223> a, t, c, g, or other

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<223> Incyte ID No: 255750.1

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<210> 263
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 988231.7

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<210> 265
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<212> DNA
<213> Homo sapiens

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<223> a, t, c, g, or other

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<223> Incyte ID No: 346511.5

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